

46th CCFA - INFORMATION DOCUMENT TO THE DISCUSSION ON THE GSFA

TABLE ONE

Additives Permitted for Use Under Specified Conditions in Certain Food Categories or Individual Food Items

ACESULFAME POTASSIUM

INS 950 Acesulfame potassium Functional Class: Flavour enhancer, Sweetener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	350 mg/kg	161 & 188	Adopted	2007
01.3.2	Beverage whiteners	2000 mg/kg	161 & 188	Adopted	2008
01.4.4	Cream analogues	1000 mg/kg	161 & 188	Adopted	2008
01.5.2	Milk and cream powder analogues	1000 mg/kg	161 & 188	Adopted	2008
01.6.5	Cheese analogues	350 mg/kg	161 & 188	Adopted	2008
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	350 mg/kg	161 & 188	Adopted	2007
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	1000 mg/kg	161 & 188	Adopted	2008
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	350 mg/kg	161 & 188	Adopted	2007
03.0	Edible ices, including sherbet and sorbet	800 mg/kg	161 & 188	Adopted	2007
04.1.2.1	Frozen fruit	500 mg/kg	161 & 188	Adopted	2008
04.1.2.2	Dried fruit	500 mg/kg	161 & 188	Adopted	2008
04.1.2.3	Fruit in vinegar, oil, or brine	200 mg/kg	161 & 188	Adopted	2007
04.1.2.4	Canned or bottled (pasteurized) fruit	350 mg/kg	161 & 188	Adopted	2007
04.1.2.5	Jams, jellies, marmelades	1000 mg/kg	161 & 188	Adopted	2007
04.1.2.6	Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5	1000 mg/kg	161 & 188	Adopted	2007
04.1.2.7	Candied fruit	500 mg/kg	161 & 188	Adopted	2007
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	350 mg/kg	161 & 188	Adopted	2007
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	350 mg/kg	161 & 188	Adopted	2007

ACESULFAME POTASSIUM

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.1.2.10	Fermented fruit products	350 mg/kg	161 & 188	Adopted	2007
04.1.2.11	Fruit fillings for pastries	350 mg/kg	161 & 188	Adopted	2007
04.1.2.12	Cooked fruit	500 mg/kg	161 & 188	Adopted	2008
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	200 mg/kg	144 & 188	Adopted	2007
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	350 mg/kg	161 & 188	Adopted	2008
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g., peanut butter)	1000 mg/kg	188	Adopted	2008
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	350 mg/kg	161 & 188	Adopted	2007
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	1000 mg/kg	188	Adopted	2008
05.1.1	Cocoa mixes (powders) and cocoa mass/cake	350 mg/kg	97 & 188	Adopted	2007
05.1.2	Cocoa mixes (syrups)	350 mg/kg	97, 161 & 188	Adopted	2007
05.1.3	Cocoa-based spreads, including fillings	1000 mg/kg	161 & 188	Adopted	2007
05.1.4	Cocoa and chocolate products	500 mg/kg	161 & 188	Adopted	2007
05.1.5	Imitation chocolate, chocolate substitute products	500 mg/kg	161 & 188	Adopted	2007
05.2.1	Hard candy	500 mg/kg	156, 161 & 188	Adopted	2007
05.2.2	Soft candy	1000 mg/kg	157, 161 & 188	Adopted	2007
05.2.3	Nougats and marzipans	1000 mg/kg	161 & 188	Adopted	2007
05.3	Chewing gum	5000 mg/kg	161 & 188	Adopted	2007
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	500 mg/kg	161 & 188	Adopted	2007
06.3	Breakfast cereals, including rolled oats	1200 mg/kg	161 & 188	Adopted	2007
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	350 mg/kg	161 & 188	Adopted	2007
06.8.1	Soybean-based beverages	500 mg/kg	188	3	
07.1	Bread and ordinary bakery wares	1000 mg/kg	161 & 188	Adopted	2008
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	1000 mg/kg	165 & 188	Adopted	2007
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	200 mg/kg	144 & 188	Adopted	2008
09.3	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms	200 mg/kg	144 & 188	Adopted	2007
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	200 mg/kg	144 & 188	Adopted	2007

ACESULFAME POTASSIUM

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
10.4	Egg-based desserts (e.g., custard)	350 mg/kg	161 & 188	Adopted	2007
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	1000 mg/kg	159 & 188	Adopted	2007
11.6	Table-top sweeteners, including those containing high-intensity sweeteners	GMP	188	Adopted	2007
12.2	Herbs, spices, seasonings and condiments (e.g., seasoning for instant noodles)	2000 mg/kg	161 & 188	Adopted	2008
12.3	Vinegars	2000 mg/kg	161 & 188	Adopted	2008
12.4	Mustards	350 mg/kg	188	Adopted	2007
12.5	Soups and broths	110 mg/kg	161 & 188	Adopted	2007
12.6	Sauces and like products	1000 mg/kg	188	Adopted	2007
12.7	Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	350 mg/kg	161 & 188	Adopted	2007
12.9.1	Fermented soybean paste (e.g., miso)	350 mg/kg	188	3	
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	500 mg/kg	188	Adopted	2007
13.4	Dietetic formulae for slimming purposes and weight reduction	450 mg/kg	188	Adopted	2007
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	450 mg/kg	188	Adopted	2007
13.6	Food supplements	2000 mg/kg	188	Adopted	2007
14.1.3.1	Fruit nectar	350 mg/kg	188	Adopted	2005
14.1.3.2	Vegetable nectar	350 mg/kg	161 & 188	Adopted	2008
14.1.3.3	Concentrates for fruit nectar	350 mg/kg	127 & 188	Adopted	2005
14.1.3.4	Concentrates for vegetable nectar	350 mg/kg	127, 161 & 188	Adopted	2007
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	600 mg/kg	161 & 188	Adopted	2007
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	600 mg/kg	160, 161 & 188	Adopted	2007
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	350 mg/kg	188	Adopted	2007
15.0	Ready-to-eat savouries	350 mg/kg	188	Adopted	2007

ACETIC ACID, GLACIAL

INS 260

Acetic acid, glacial

Functional Class: Acidity regulator, Preservative

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.6.6	Whey protein cheese	GMP		Adopted	2006
02.1.3	Lard, tallow, fish oil, and other animal fats	5000 mg/kg		7	
04.2.1.1	Untreated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes [(including soybeans)], and aloe vera), seaweeds, and nuts and seeds	GMP	262 & 263	Adopted	2013

ACETIC ACID, GLACIAL

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	262 & 263	Adopted	2013
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP		Adopted	2013
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP		7	
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
10.2.1	Liquid egg products	GMP		Adopted	2013
10.2.2	Frozen egg products	GMP		Adopted	2013
12.1.2	Salt Substitutes	GMP		Adopted	2013
12.2.1	Herbs and spices	GMP	51	7	
13.2	Complementary foods for infants and young children	5000 mg/kg	238	Adopted	2013
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160	Adopted	2013

ACETIC AND FATTY ACID ESTERS OF GLYCEROL

INS 472a Acetic and fatty acid esters of glycerol Functional Class: Emulsifier, Sequestrant, Stabilizer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1.2	Buttermilk (plain)	GMP		7	
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.2.2	Renneted milk (plain)	GMP		Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
02.1.2	Vegetable oils and fats	GMP		7	
02.1.3	Lard, tallow, fish oil, and other animal fats	GMP		7	
04.1.1.2	Surface-treated fresh fruit	GMP	16	7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	16	7	
06.1	Whole, broken, or flaked grain, including rice	GMP		7	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP	16	7	
08.1.2	Fresh meat, poultry, and game, comminuted	GMP		7	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	

ACETIC AND FATTY ACID ESTERS OF GLYCEROL

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	GMP		7	
12.1.2	Salt Substitutes	5000 mg/kg		7	
12.2.1	Herbs and spices	5000 mg/kg	51	7	
13.2	Complementary foods for infants and young children	5000 mg/kg		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		7	

ACETYLATED DISTARCH ADIPATE

INS 1422 Acetylated distarch adipate Functional Class: Emulsifier, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235	Adopted	2013
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.2.2	Renneted milk (plain)	GMP		Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41	7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	10000 mg/kg		7	
13.1.2	Follow-up formulae	5000 mg/kg	72 & 150	7	
13.2	Complementary foods for infants and young children	60000 mg/kg		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	10000 mg/kg		7	

ACETYLATED DISTARCH PHOSPHATE

INS 1414 Acetylated distarch phosphate Functional Class: Emulsifier, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1.2	Buttermilk (plain)	GMP		7	
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235	Adopted	2013
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.2.2	Renneted milk (plain)	GMP		Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013

ACETYLATED DISTARCH PHOSPHATE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
04.1.1.2	Surface-treated fresh fruit	GMP	16	7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	16	7	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP	16	7	
08.1.2	Fresh meat, poultry, and game, comminuted	GMP		7	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41	7	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	10000 mg/kg		7	
12.1.2	Salt Substitutes	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	
13.1.1	Infant formulae	5000 mg/kg	72 & 150	7	
13.1.2	Follow-up formulae	5000 mg/kg	72 & 150	7	
13.1.3	Formulae for special medical purposes for infants	5000 mg/kg	72 & 150	4	
13.2	Complementary foods for infants and young children	60000 mg/kg		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	10000 mg/kg		7	

ACETYLATED OXIDIZED STARCH

INS 1451 Acetylated oxidized starch Functional Class: Emulsifier, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
13.2	Complementary foods for infants and young children	5000 mg/kg	72	4	

ACID-TREATED STARCH

INS 1401 Acid-treated starch Functional Class: Emulsifier, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235	Adopted	2013
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013

ACID-TREATED STARCH

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2.2	Renneted milk (plain)	GMP		Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	236	Adopted	2013
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41	7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	10000 mg/kg		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	10000 mg/kg		7	

ADIPATES

INS 355	Adipic acid	Functional Class: Acidity regulator
INS 356	Sodium adipates	Functional Class: Acidity regulator
INS 357	Potassium adipates	Functional Class: Acidity regulator
INS 359	Ammonium adipates	Functional Class: Acidity regulator

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2.1	Fermented milks (plain)	1500 mg/kg	1	4	
01.3.2	Beverage whiteners	4500 mg/kg	1	7	
01.6.4	Processed cheese	5000 mg/kg	1	7	
01.6.5	Cheese analogues	5000 mg/kg	1	7	
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	6000 mg/kg	1	7	
02.1.2	Vegetable oils and fats	3000 mg/kg	1	7	
02.1.3	Lard, tallow, fish oil, and other animal fats	3000 mg/kg	1	7	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	30000 mg/kg	1	7	
03.0	Edible ices, including sherbet and sorbet	2000 mg/kg	1	7	
04.1.2.5	Jams, jellies, marmelades	2000 mg/kg	1	7	
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	30000 mg/kg	1	7	
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	30000 mg/kg	1	7	
04.1.2.11	Fruit fillings for pastries	30000 mg/kg	1	7	
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	50000 mg/kg	1	7	
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	6000 mg/kg	1	7	

ADIPATES

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	50000 mg/kg	1	4	
04.2.2.8	Cooked or fried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	1000 mg/kg	1	7	
05.1.3	Cocoa-based spreads, including fillings	2000 mg/kg	1	7	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	30000 mg/kg	1	7	
05.3	Chewing gum	20000 mg/kg	1	7	
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	30000 mg/kg	1	7	
06.4.2	Dried pastas and noodles and like products	1000 mg/kg	1	7	
06.4.3	Pre-cooked pastas and noodles and like products	1000 mg/kg	1	7	
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	30000 mg/kg	1	7	
06.6	Batters (e.g., for breading or batters for fish or poultry)	1000 mg/kg	1	7	
07.0	Bakery wares	2000 mg/kg	1	7	
08.2	Processed meat, poultry, and game products in whole pieces or cuts	3000 mg/kg	1	7	
08.3	Processed comminuted meat, poultry, and game products	3000 mg/kg	1	7	
10.4	Egg-based desserts (e.g., custard)	30000 mg/kg	1	7	
12.2.2	Seasonings and condiments	50000 mg/kg	1	7	
12.5	Soups and broths	20 mg/kg	1	7	
12.6	Sauces and like products	10000 mg/kg	1	7	
14.1.4.1	Carbonated water-based flavoured drinks	790 mg/kg	1	7	
14.1.4.2	Non-carbonated water-based flavoured drinks, including punches and ades	2000 mg/kg	1	7	
14.1.4.3	Concentrates (liquid or solid) for water-based flavoured drinks	10000 mg/kg	1	7	
14.2.1	Beer and malt beverages	2000 mg/kg	1	4	
14.2.1	Beer and malt beverages	GMP	1	7	
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	13000 mg/kg	1	7	

AGAR

INS 406

Agar

Functional Class: Bulking agent, Carrier, Emulsifier, Gelling agent, Glazing agent, Humectant, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1	Milk and buttermilk (plain)	4000 mg/kg		7	
01.2	Fermented and renneted milk products (plain), excluding food category 01.1.2 (dairy-based drinks)	5000 mg/kg		7	

AGAR

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
02.1.2	Vegetable oils and fats	GMP		7	
02.1.3	Lard, tallow, fish oil, and other animal fats	GMP		7	
04.1.1.2	Surface-treated fresh fruit	GMP		7	
04.1.1.3	Peeled or cut fresh fruit	GMP		7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
04.2.1.3	Peeled, cut or shredded fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
06.4.1	Fresh pastas and noodles and like products	GMP		4	
06.4.2	Dried pastas and noodles and like products	GMP		7	
08.1	Fresh meat, poultry, and game	GMP		7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	20000 mg/kg	3 & 53	7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
10.2.1	Liquid egg products	GMP		7	
10.2.2	Frozen egg products	GMP		7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	GMP		7	
12.1.2	Salt Substitutes	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	
13.2	Complementary foods for infants and young children	GMP		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		7	

ALGINIC ACID

INS 400

Alginic acid

Functional Class: Bulking agent, Carrier, Emulsifier, Foaming agent, Gelling agent, Glazing agent, Humectant, Sequestrant, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1.2	Buttermilk (plain)	6000 mg/kg		7	

ALGINIC ACID

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
02.1.2	Vegetable oils and fats	GMP		7	
02.1.3	Lard, tallow, fish oil, and other animal fats	GMP		7	
04.1.1.2	Surface-treated fresh fruit	GMP		7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP		Adopted	2013
06.4.1	Fresh pastas and noodles and like products	GMP		4	
06.4.2	Dried pastas and noodles and like products	GMP		7	
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	5000 mg/kg		7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	10000 mg/kg		7	
12.1.2	Salt Substitutes	GMP		4	
12.2.1	Herbs and spices	GMP	51	4	
13.2	Complementary foods for infants and young children	5000 mg/kg		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		4	

ALITAME

INS 956

Alitame

Functional Class: Sweetener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	100 mg/kg	161	Adopted	2007
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	100 mg/kg	161	Adopted	2007
03.0	Edible ices, including sherbet and sorbet	100 mg/kg	161	Adopted	2007
04.1.2.5	Jams, jellies, marmelades	100 mg/kg	161	Adopted	2007
05.1.2	Cocoa mixes (syrups)	300 mg/kg	161	Adopted	2007
05.1.3	Cocoa-based spreads, including fillings	300 mg/kg	161	Adopted	2007
05.1.4	Cocoa and chocolate products	300 mg/kg	161	Adopted	2007
05.1.5	Imitation chocolate, chocolate substitute products	300 mg/kg	161	Adopted	2007

ALITAME

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	300 mg/kg	161	Adopted	2007
05.3	Chewing gum	300 mg/kg	161	Adopted	2007
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	300 mg/kg	161	Adopted	2007
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	200 mg/kg	159	Adopted	2007
11.6	Table-top sweeteners, including those containing high-intensity sweeteners	GMP		Adopted	2007
12.5	Soups and broths	40 mg/kg	161	Adopted	2007
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	300 mg/kg		Adopted	2007
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	40 mg/kg	161	Adopted	2007

ALKALINE TREATED STARCH

INS 1402 Alkaline treated starch Functional Class: Emulsifier, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235	Adopted	2013
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.2.2	Renneted milk (plain)	GMP		Adopted	2013
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41	7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	10000 mg/kg		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	10000 mg/kg		7	

ALLURA RED AC

INS 129 Allura red AC Functional Class: Colour

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	300 mg/kg	52 & 161	Adopted	2009
01.6.2.2	Rind of ripened cheese	100 mg/kg		Adopted	2009
01.6.4	Processed cheese	100 mg/kg	161	Adopted	2009
01.6.5	Cheese analogues	100 mg/kg	3	Adopted	2009
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	300 mg/kg	161	Adopted	2009
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	300 mg/kg	161	Adopted	2009
03.0	Edible ices, including sherbet and sorbet	150 mg/kg		Adopted	2009
04.1.2.5	Jams, jellies, marmelades	100 mg/kg	161	Adopted	2009

ALLURA RED AC

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.1.2.7	Candied fruit	300 mg/kg	161	Adopted	2009
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	300 mg/kg	161 & 182	Adopted	2009
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	300 mg/kg	161	Adopted	2009
04.1.2.11	Fruit fillings for pastries	300 mg/kg	161	Adopted	2009
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	300 mg/kg	161	Adopted	2009
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	200 mg/kg	161	Adopted	2009
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	200 mg/kg	92 & 161	Adopted	2009
05.1.3	Cocoa-based spreads, including fillings	300 mg/kg	161	Adopted	2009
05.1.4	Cocoa and chocolate products	300 mg/kg	183	Adopted	2009
05.1.5	Imitation chocolate, chocolate substitute products	300 mg/kg		Adopted	2009
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	300 mg/kg		Adopted	2009
05.3	Chewing gum	300 mg/kg		Adopted	2009
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	300 mg/kg		Adopted	2009
06.3	Breakfast cereals, including rolled oats	300 mg/kg		Adopted	2009
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	300 mg/kg		Adopted	2009
07.1.2	Crackers, excluding sweet crackers	300 mg/kg	161	Adopted	2009
07.1.3	Other ordinary bakery products (e.g., bagels, pita, English muffins)	300 mg/kg	161	Adopted	2009
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	300 mg/kg	161	Adopted	2009
08.3.2	Heat-treated processed comminuted meat, poultry, and game products	25 mg/kg	161	Adopted	2009
08.4	Edible casings (e.g., sausage casings)	300 mg/kg	16	Adopted	2009
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	300 mg/kg	95	Adopted	2009
09.2.4.1	Cooked fish and fish products	300 mg/kg	95	Adopted	2009
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	250 mg/kg		Adopted	2009
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	300 mg/kg	22	Adopted	2009
09.3.3	Salmon substitutes, caviar, and other fish roe products	300 mg/kg		Adopted	2009
09.3.4	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3	300 mg/kg		Adopted	2009
10.1	Fresh eggs	100 mg/kg	4	Adopted	2009
10.4	Egg-based desserts (e.g., custard)	300 mg/kg	161	Adopted	2009

ALLURA RED AC

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	300 mg/kg	161	Adopted	2009
12.2.2	Seasonings and condiments	300 mg/kg		Adopted	2009
12.4	Mustards	300 mg/kg		Adopted	2009
12.5	Soups and broths	300 mg/kg	161	Adopted	2009
12.6	Sauces and like products	300 mg/kg		Adopted	2009
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	50 mg/kg		Adopted	2009
13.4	Dietetic formulae for slimming purposes and weight reduction	50 mg/kg		Adopted	2009
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	300 mg/kg		Adopted	2009
13.6	Food supplements	300 mg/kg		Adopted	2009
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	300 mg/kg	127 & 161	Adopted	2009
14.2.2	Cider and perry	200 mg/kg		Adopted	2009
14.2.4	Wines (other than grape)	200 mg/kg		Adopted	2009
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	300 mg/kg		Adopted	2009
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	200 mg/kg		Adopted	2009
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	200 mg/kg	161	Adopted	2009
15.2	Processed nuts, including coated nuts and nut mixtures (with e.g., dried fruit)	100 mg/kg		Adopted	2009

ALUMINIUM AMMONIUM SULFATE

INS 523 Aluminium ammonium sulfate Functional Class: Acidity regulator, Colour retention agent, Firming agent, Raising agent, Stabilizer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	520 mg/kg	6 & 245	Adopted	2013
06.4.1	Fresh pastas and noodles and like products	300 mg/kg	6 & 247	Adopted	2013
07.1.2	Crackers, excluding sweet crackers	100 mg/kg	6 & 246	Adopted	2013
07.1.3	Other ordinary bakery products (e.g., bagels, pita, English muffins)	100 mg/kg	6, 244 & 246	Adopted	2013
07.1.5	Steamed breads and buns	40 mg/kg	6, 246 & 248	Adopted	2013
07.1.6	Mixes for bread and ordinary bakery wares	40 mg/kg	6, 246 & 249	Adopted	2013
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	200 mg/kg	6 & 250	Adopted	2013

ALUMINIUM SILICATE

INS 559 Aluminium silicate Functional Class: Anticaking agent

ALUMINIUM SILICATE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
05.3	Chewing gum	100 mg/kg	6 & 174	Adopted	2013

AMARANTH

INS 123 Amaranth Functional Class: Colour

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, egnog, drinking yoghurt, whey-based drinks)	300 mg/kg	52	7	
01.6.2.2	Rind of ripened cheese	100 mg/kg		7	
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	300 mg/kg		7	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	300 mg/kg		7	
03.0	Edible ices, including sherbet and sorbet	300 mg/kg		7	
04.1.2.4	Canned or bottled (pasteurized) fruit	200 mg/kg		7	
04.1.2.5	Jams, jellies, marmelades	300 mg/kg		7	
04.1.2.7	Candied fruit	300 mg/kg		7	
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	300 mg/kg	182	7	
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	300 mg/kg		7	
04.1.2.11	Fruit fillings for pastries	300 mg/kg		7	
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	300 mg/kg		7	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	300 mg/kg		4	
05.1.3	Cocoa-based spreads, including fillings	100 mg/kg		7	
05.2.2	Soft candy	100 mg/kg		7	
05.3	Chewing gum	300 mg/kg		7	
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	300 mg/kg		7	
06.3	Breakfast cereals, including rolled oats	300 mg/kg		7	
06.4.2	Dried pastas and noodles and like products	100 mg/kg		7	
06.4.3	Pre-cooked pastas and noodles and like products	100 mg/kg	153	7	
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	300 mg/kg		7	
06.6	Batters (e.g., for breading or batters for fish or poultry)	100 mg/kg		7	
07.0	Bakery wares	300 mg/kg		7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	300 mg/kg		7	

AMARANTH

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
09.2.4.1	Cooked fish and fish products	300 mg/kg		7	
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	300 mg/kg		7	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	300 mg/kg	22	7	
09.3.3	Salmon substitutes, caviar, and other fish roe products	300 mg/kg	50	7	
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	300 mg/kg		7	
10.1	Fresh eggs	100 mg/kg	4	4	
10.4	Egg-based desserts (e.g., custard)	300 mg/kg		7	
11.3	Sugar solutions and syrups, also (partially) inverted, including treacle and molasses, excluding products of food category 11.1.3	300 mg/kg		7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	300 mg/kg		7	
12.2.2	Seasonings and condiments	300 mg/kg		7	
12.5	Soups and broths	300 mg/kg		7	
12.6.2	Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy)	300 mg/kg		7	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	100 mg/kg		7	
14.2.4	Wines (other than grape)	30 mg/kg		7	
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	300 mg/kg		7	
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	100 mg/kg		7	
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	300 mg/kg		7	

AMMONIUM ALGINATE

INS 403

Ammonium alginate

Functional Class: Bulking agent, Carrier, Emulsifier, Foaming agent, Gelling agent, Glazing agent, Humectant, Sequestrant, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
02.1.2	Vegetable oils and fats	5000 mg/kg		7	
02.1.3	Lard, tallow, fish oil, and other animal fats	5000 mg/kg		7	
04.1.1.2	Surface-treated fresh fruit	GMP		7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
06.4.2	Dried pastas and noodles and like products	GMP		7	

AMMONIUM ALGINATE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	5000 mg/kg		7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	10000 mg/kg		7	
13.2	Complementary foods for infants and young children	5000 mg/kg		7	

AMMONIUM CARBONATE

INS 503(i) Ammonium carbonate Functional Class: Acidity regulator, Raising agent

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41	Adopted	2013
13.2	Complementary foods for infants and young children	GMP	239 & 248	Adopted	2013

AMMONIUM CHLORIDE

INS 510 Ammonium chloride Functional Class: Flour treatment agent

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP		4	
08.1	Fresh meat, poultry, and game	GMP		4	
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
12.1.2	Salt Substitutes	GMP		4	
12.2.1	Herbs and spices	GMP	51	4	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		4	

AMMONIUM HYDROGEN CARBONATE

INS 503(ii) Ammonium hydrogen carbonate Functional Class: Acidity regulator, Raising agent

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
13.2	Complementary foods for infants and young children	GMP	239 & 248	Adopted	2013

AMMONIUM HYDROXIDE

INS 527 Ammonium hydroxide Functional Class: Acidity regulator

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP		Adopted	2013

AMMONIUM HYDROXIDE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
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AMMONIUM SALTS OF PHOSPHATIDIC ACID

INS 442 Ammonium salts of phosphatidic acid Functional Class: Emulsifier

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	5000 mg/kg	231	Adopted	2012
05.1.1	Cocoa mixes (powders) and cocoa mass/cake	10000 mg/kg	97	Adopted	2009
05.1.4	Cocoa and chocolate products	10000 mg/kg		Adopted	2009
05.1.5	Imitation chocolate, chocolate substitute products	10000 mg/kg		Adopted	2009

AMYLASE FROM ASPERGILLUS ORYZAE VAR., ALPHA-

INS 1100 alpha-Amylase from Aspergillus oryzae var. Functional Class: Flour treatment agent

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
06.1	Whole, broken, or flaked grain, including rice	GMP		7	
06.2	Flours and starches (including soybean powder)	GMP		Adopted	1999
06.4.2	Dried pastas and noodles and like products	GMP		7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	GMP		7	
13.2	Complementary foods for infants and young children	GMP		7	

AMYLASE FROM BACILLUS LICHENIFORMIS (CARBOHYDRASE), ALPHA-

INS 1100 alpha-Amylase from Bacillus licheniformis (Carbohydrase) Functional Class: Flour treatment agent

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
06.2.2	Starches	GMP		4	

AMYLASE FROM BACILLUS SUBTILIS, ALPHA-

INS 1100 alpha-Amylase from Bacillus subtilis Functional Class: Flour treatment agent

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
06.2.2	Starches	GMP		4	

ANNATTO EXTRACTS, BIXIN-BASED

ANNATTO EXTRACTS, BIXIN-BASED

INS 160b(i) Annatto extracts, bixin-based Functional Class: Colour

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	20 mg/kg	8 & 52	4	
01.3.2	Beverage whiteners	50 mg/kg	8	4	
01.4.4	Cream analogues	100 mg/kg	8	4	
01.5.2	Milk and cream powder analogues	100 mg/kg	8	4	
01.6.2.2	Rind of ripened cheese	1000 mg/kg	8	4	
01.6.2.3	Cheese powder (for reconstitution; e.g., for cheese sauces)	50 mg/kg	8	4	
01.6.3	Whey cheese	50 mg/kg	8	4	
01.6.4.1	Plain processed cheese	60 mg/kg	8	4	
01.6.4.2	Flavoured processed cheese, including containing fruit, vegetables, meat, etc.	60 mg/kg	8	4	
01.6.5	Cheese analogues	50 mg/kg	8	4	
01.6.6	Whey protein cheese	50 mg/kg	8	4	
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	500 mg/kg	8	4	
01.8.1	Liquid whey and whey products, excluding whey cheeses	20 mg/kg	8	4	
01.8.2	Dried whey and whey products, excluding whey cheeses	20 mg/kg	8	4	
02.1.1	Butter oil, anhydrous milkfat, ghee	100 mg/kg	8	4	
02.2.1	Butter	20 mg/kg	8	Adopted	2008
02.2.2	Fat spreads, dairy fat spreads and blended spreads	100 mg/kg	8	4	
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	10 mg/kg	8	4	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	30 mg/kg	8	4	
03.0	Edible ices, including sherbet and sorbet	20 mg/kg	8	4	
04.1.2.3	Fruit in vinegar, oil, or brine	20 mg/kg	8	4	
04.1.2.5	Jams, jellies, marmelades	20 mg/kg	8	4	
04.1.2.6	Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5	20 mg/kg	8	4	
04.1.2.7	Candied fruit	20 mg/kg	8	4	
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	100 mg/kg	8 & 182	4	
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	30 mg/kg	8	4	
04.1.2.11	Fruit fillings for pastries	50 mg/kg	8	4	
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	20 mg/kg	8	4	

ANNATTO EXTRACTS, BIXIN-BASED

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g., peanut butter)	100 mg/kg	8	4	
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	20 mg/kg	8 & 92	4	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	20 mg/kg	8	4	
04.2.2.8	Cooked or fried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	100 mg/kg	8	3	
05.1.1	Cocoa mixes (powders) and cocoa mass/cake	50 mg/kg	8	4	
05.1.2	Cocoa mixes (syrops)	50 mg/kg	8	4	
05.1.3	Cocoa-based spreads, including fillings	50 mg/kg	8	4	
05.1.4	Cocoa and chocolate products	25 mg/kg	8 & 183	4	
05.1.5	Imitation chocolate, chocolate substitute products	25 mg/kg	8	4	
05.2.1	Hard candy	200 mg/kg	8	4	
05.2.2	Soft candy	200 mg/kg	8	4	
05.2.3	Nougats and marzipans	100 mg/kg	8	4	
05.3	Chewing gum	500 mg/kg	8	4	
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	50 mg/kg	8	4	
06.3	Breakfast cereals, including rolled oats	75 mg/kg	8	4	
06.4.2	Dried pastas and noodles and like products	20 mg/kg	8	4	
06.4.3	Pre-cooked pastas and noodles and like products	20 mg/kg	8 & 153	4	
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	30 mg/kg	8	4	
06.6	Batters (e.g., for breading or batters for fish or poultry)	100 mg/kg	8	4	
06.8.1	Soybean-based beverages	10 mg/kg		4	
07.1.2	Crackers, excluding sweet crackers	200 mg/kg	8	4	
07.1.4	Bread-type products, including bread stuffing and bread crumbs	200 mg/kg	8	4	
07.1.5	Steamed breads and buns	200 mg/kg	8	4	
07.1.6	Mixes for bread and ordinary bakery wares	200 mg/kg	8	4	
07.2.1	Cakes, cookies and pies (e.g., fruit-filled or custard types)	50 mg/kg	8	4	
07.2.2	Other fine bakery products (e.g., doughnuts, sweet rolls, scones, and muffins)	50 mg/kg	8	4	
07.2.3	Mixes for fine bakery wares (e.g., cakes, pancakes)	25 mg/kg	8	4	
08.1.2	Fresh meat, poultry, and game, comminuted	20 mg/kg	4, 8, 16 & 94	4	

ANNATTO EXTRACTS, BIXIN-BASED

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
08.2.2	Heat-treated processed meat, poultry, and game products in whole pieces or cuts	100 mg/kg	8	4	
08.3.1.1	Cured (including salted) non-heat treated processed comminuted meat, poultry, and game products	20 mg/kg	8	4	
08.3.1.2	Cured (including salted) and dried non-heat treated processed comminuted meat, poultry, and game products	100 mg/kg	8	4	
08.3.1.3	Fermented non-heat treated processed comminuted meat, poultry, and game products	100 mg/kg	8	4	
08.3.2	Heat-treated processed comminuted meat, poultry, and game products	50 mg/kg	8	4	
08.3.3	Frozen processed comminuted meat, poultry, and game products	25 mg/kg	8	4	
08.4	Edible casings (e.g., sausage casings)	1000 mg/kg	8 & 85	4	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	25 mg/kg	4, 8 & 16	4	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	25 mg/kg	8	4	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	50 mg/kg	8	4	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	50 mg/kg	8	4	
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	50 mg/kg	8	4	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	15 mg/kg	8	4	
09.3.1	Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly	25 mg/kg	8	4	
09.3.2	Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine	25 mg/kg	8	4	
09.3.3	Salmon substitutes, caviar, and other fish roe products	50 mg/kg	8	4	
09.3.4	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3	30 mg/kg	8	4	
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	25 mg/kg	8	4	
10.4	Egg-based desserts (e.g., custard)	25 mg/kg	8	4	
12.2	Herbs, spices, seasonings and condiments (e.g., seasoning for instant noodles)	50 mg/kg	8	4	
12.4	Mustards	50 mg/kg	8	4	
12.5	Soups and broths	50 mg/kg	8	4	
12.6.1	Emulsified sauces and dips (e.g., mayonnaise, salad dressing, onion dip)	100 mg/kg	8	4	
12.6.2	Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy)	100 mg/kg	8	4	
12.6.3	Mixes for sauces and gravies	100 mg/kg	8	4	
12.6.4	Clear sauces (e.g., fish sauce)	400 mg/kg	8	4	
12.7	Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	50 mg/kg	8	4	
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	20 mg/kg	8	4	

ANNATTO EXTRACTS, BIXIN-BASED

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
13.4	Dietetic formulae for slimming purposes and weight reduction	20 mg/kg	8	4	
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	20 mg/kg	8	4	
13.6	Food supplements	60 mg/kg	8	4	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	50 mg/kg	8	4	
14.2.3.3	Fortified grape wine, grape liquor wine, and sweet grape wine	20 mg/kg	8	4	
14.2.4	Wines (other than grape)	20 mg/kg	8	4	
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	30 mg/kg	8	4	
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	30 mg/kg	8	4	
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	50 mg/kg	8	4	
15.2	Processed nuts, including coated nuts and nut mixtures (with e.g., dried fruit)	30 mg/kg	8	4	
15.3	Snacks - fish based	20 mg/kg	8	4	

ANNATTO EXTRACTS, NORBIXIN-BASED

INS 160b(ii) Annatto extracts, norbixin-based Functional Class: Colour

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	20 mg/kg	52 & 185	4	
01.4.4	Cream analogues	300 mg/kg	185	4	
01.5.2	Milk and cream powder analogues	55 mg/kg	185	4	
01.6.1	Unripened cheese	25 mg/kg	185	4	
01.6.2.1	Ripened cheese, includes rind	25 mg/kg	185	4	
01.6.2.2	Rind of ripened cheese	50 mg/kg	185	4	
01.6.2.3	Cheese powder (for reconstitution; e.g., for cheese sauces)	50 mg/kg	185	4	
01.6.3	Whey cheese	10 mg/kg	185	4	
01.6.4	Processed cheese	25 mg/kg	185	4	
01.6.6	Whey protein cheese	10 mg/kg	185	4	
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	20 mg/kg	185	4	
01.8.1	Liquid whey and whey products, excluding whey cheeses	20 mg/kg	185	4	
01.8.2	Dried whey and whey products, excluding whey cheeses	20 mg/kg	185	4	
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	10 mg/kg	185	4	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	10 mg/kg	185	4	

ANNATTO EXTRACTS, NORBIXIN-BASED

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
03.0	Edible ices, including sherbet and sorbet	200 mg/kg	185	4	
04.1.1.2	Surface-treated fresh fruit	20 mg/kg	4,16 & 185	4	
04.1.2.4	Canned or bottled (pasteurized) fruit	200 mg/kg	185	4	
04.1.2.5	Jams, jellies, marmelades	20 mg/kg	185	4	
04.1.2.6	Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5	20 mg/kg	185	4	
04.1.2.7	Candied fruit	20 mg/kg	185	4	
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	20 mg/kg	172, 182 & 185	4	
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	150 mg/kg	175 & 185	4	
04.1.2.10	Fermented fruit products	200 mg/kg	185	4	
04.1.2.11	Fruit fillings for pastries	200 mg/kg	185	4	
04.1.2.12	Cooked fruit	20 mg/kg	185	4	
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	300 mg/kg	185	4	
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	10 mg/kg	185	4	
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g., peanut butter)	100 mg/kg	185	4	
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	10 mg/kg	92 & 185	4	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	200 mg/kg	185	4	
04.2.2.8	Cooked or fried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	100 mg/kg	185	4	
05.1.1	Cocoa mixes (powders) and cocoa mass/cake	50 mg/kg	185	4	
05.1.2	Cocoa mixes (syrups)	50 mg/kg	185	4	
05.1.3	Cocoa-based spreads, including fillings	50 mg/kg	185	4	
05.1.5	Imitation chocolate, chocolate substitute products	25 mg/kg	185	4	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	200 mg/kg	185	4	
05.3	Chewing gum	500 mg/kg	185	4	
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	1000 mg/kg	185	4	
06.1	Whole, broken, or flaked grain, including rice	500 mg/kg	184 & 185	4	
06.3	Breakfast cereals, including rolled oats	75 mg/kg	185	4	
06.4.2	Dried pastas and noodles and like products	100 mg/kg	185	4	

ANNATTO EXTRACTS, NORBIXIN-BASED

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
06.4.3	Pre-cooked pastas and noodles and like products	100 mg/kg	153 & 185	4	
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	40 mg/kg	134 & 185	4	
06.6	Batters (e.g., for breading or batters for fish or poultry)	100 mg/kg	185	4	
06.7	Pre-cooked or processed rice products, including rice cakes (Oriental type only)	500 mg/kg	185	4	
07.1.1	Breads and rolls	200 mg/kg	185	4	
07.1.2	Crackers, excluding sweet crackers	200 mg/kg	185	4	
07.1.4	Bread-type products, including bread stuffing and bread crumbs	200 mg/kg	185	4	
07.1.5	Steamed breads and buns	200 mg/kg	185	4	
07.1.6	Mixes for bread and ordinary bakery wares	200 mg/kg	185	4	
07.2.1	Cakes, cookies and pies (e.g., fruit-filled or custard types)	50 mg/kg	185	4	
07.2.2	Other fine bakery products (e.g., doughnuts, sweet rolls, scones, and muffins)	50 mg/kg	185	4	
07.2.3	Mixes for fine bakery wares (e.g., cakes, pancakes)	25 mg/kg	185	4	
08.1.2	Fresh meat, poultry, and game, comminuted	1000 mg/kg	4, 16, 94 & 185	4	
08.2.2	Heat-treated processed meat, poultry, and game products in whole pieces or cuts	100 mg/kg	185	4	
08.3.1.1	Cured (including salted) non-heat treated processed comminuted meat, poultry, and game products	1000 mg/kg	185	4	
08.3.1.2	Cured (including salted) and dried non-heat treated processed comminuted meat, poultry, and game products	100 mg/kg	185	4	
08.3.1.3	Fermented non-heat treated processed comminuted meat, poultry, and game products	100 mg/kg	185	4	
08.3.2	Heat-treated processed comminuted meat, poultry, and game products	50 mg/kg	185	4	
08.3.3	Frozen processed comminuted meat, poultry, and game products	20 mg/kg	185	4	
08.4	Edible casings (e.g., sausage casings)	20 mg/kg	85 & 185	4	
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	100 mg/kg	185	4	
09.3.1	Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly	100 mg/kg	185	4	
09.3.2	Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine	100 mg/kg	185	4	
09.3.3	Salmon substitutes, caviar, and other fish roe products	50 mg/kg	149 & 185	4	
09.3.4	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3	30 mg/kg	185	4	
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	10 mg/kg	185	4	
10.4	Egg-based desserts (e.g., custard)	25 mg/kg	185	4	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	60 mg/kg	185	4	
12.2	Herbs, spices, seasonings and condiments (e.g., seasoning for instant noodles)	50 mg/kg	185	4	

ANNATTO EXTRACTS, NORBIXIN-BASED

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
12.4	Mustards	140 mg/kg	185	4	
12.5	Soups and broths	150 mg/kg	185	4	
12.6.1	Emulsified sauces and dips (e.g., mayonnaise, salad dressing, onion dip)	100 mg/kg	185	4	
12.6.2	Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy)	100 mg/kg	185	4	
12.6.3	Mixes for sauces and gravies	100 mg/kg	185	4	
12.6.4	Clear sauces (e.g., fish sauce)	400 mg/kg	185	4	
12.7	Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	50 mg/kg	185	4	
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	10 mg/kg	185	4	
13.4	Dietetic formulae for slimming purposes and weight reduction	10 mg/kg	185	4	
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	10 mg/kg	185	4	
13.6	Food supplements	100 mg/kg	185	4	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	50 mg/kg	185	4	
14.2.2	Cider and perry	10 mg/kg	185	4	
14.2.3.1	Still grape wine	10 mg/kg	185	4	
14.2.3.2	Sparkling and semi-sparkling grape wines	10 mg/kg	185	4	
14.2.3.3	Fortified grape wine, grape liquor wine, and sweet grape wine	15 mg/kg	185	4	
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	10 mg/kg	185	4	
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	10 mg/kg	185	4	
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	50 mg/kg	185	4	
15.2	Processed nuts, including coated nuts and nut mixtures (with e.g., dried fruit)	30 mg/kg	185	4	
15.3	Snacks - fish based	20 mg/kg	185	4	

ASCORBIC ACID, L-

INS 300

Ascorbic acid, L-

Functional Class: Acidity regulator, Antioxidant, Flour treatment agent

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
02.1.2	Vegetable oils and fats	200 mg/kg		7	
02.1.3	Lard, tallow, fish oil, and other animal fats	200 mg/kg		7	
04.2.1.1	Untreated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes [(including soybeans)], and aloe vera), seaweeds, and nuts and seeds	500 mg/kg	262	Adopted	2013
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	100 mg/kg		7	

ASCORBIC ACID, L-

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP		Adopted	2013
06.2.1	Flours	300 mg/kg		7	
06.4.1	Fresh pastas and noodles and like products	200 mg/kg		Adopted	2013
06.4.2	Dried pastas and noodles and like products	GMP	256	Adopted	2013
08.1	Fresh meat, poultry, and game	2000 mg/kg		7	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	200 mg/kg		7	
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	400 mg/kg		7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP		Adopted	2013
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		Adopted	2013
12.1.2	Salt Substitutes	GMP		Adopted	2013
12.2.1	Herbs and spices	GMP	51	4	
13.1.2	Follow-up formulae	50 mg/kg	72 & 242	Adopted	2013
13.2	Complementary foods for infants and young children	500 mg/kg	242	Adopted	2013
14.1.2.1	Fruit juice	GMP		Adopted	2005
14.1.2.2	Vegetable juice	GMP		Adopted	2013
14.1.2.3	Concentrates for fruit juice	GMP	127	Adopted	2005
14.1.2.4	Concentrates for vegetable juice	GMP		Adopted	2013
14.1.3.1	Fruit nectar	GMP		Adopted	2005
14.1.3.2	Vegetable nectar	GMP		Adopted	2013
14.1.3.3	Concentrates for fruit nectar	GMP	127	Adopted	2005
14.1.3.4	Concentrates for vegetable nectar	GMP		Adopted	2013
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160	Adopted	2013
14.2.3	Grape wines	250 mg/kg		4	

ASCORBYL ESTERS

INS 304 Ascorbyl palmitate Functional Class: Antioxidant

INS 305 Ascorbyl stearate Functional Class: Antioxidant

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.3.2	Beverage whiteners	80 mg/kg	10	Adopted	2001
01.5.1	Milk powder and cream powder (plain)	500 mg/kg	10	Adopted	2001

ASCORBYL ESTERS

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.5.2	Milk and cream powder analogues	80 mg/kg	10	Adopted	2001
01.6.2.1	Ripened cheese, includes rind	500 mg/kg	10 & 112	Adopted	2001
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	500 mg/kg	2 & 10	Adopted	2001
02.1.1	Butter oil, anhydrous milkfat, ghee	500 mg/kg	10 & 171	Adopted	2006
02.1.2	Vegetable oils and fats	500 mg/kg	10	Adopted	2006
02.1.3	Lard, tallow, fish oil, and other animal fats	500 mg/kg	10	Adopted	2006
02.2.2	Fat spreads, dairy fat spreads and blended spreads	500 mg/kg	10	Adopted	2006
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	500 mg/kg	10	Adopted	2001
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	80 mg/kg	10	Adopted	2001
03.0	Edible ices, including sherbet and sorbet	200 mg/kg	10 & 15	Adopted	2001
04.1.2.2	Dried fruit	80 mg/kg	10	Adopted	2001
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	500 mg/kg	2 & 10	Adopted	2001
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	80 mg/kg	10	Adopted	2001
05.0	Confectionery	500 mg/kg	10, 15 & 114	Adopted	2001
06.3	Breakfast cereals, including rolled oats	200 mg/kg	10	Adopted	2001
06.4.3	Pre-cooked pastas and noodles and like products	500 mg/kg	10 & 211	Adopted	2012
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	500 mg/kg	2 & 10	Adopted	2001
07.0	Bakery wares	1000 mg/kg	10 & 15	Adopted	2003
08.4	Edible casings (e.g., sausage casings)	5000 mg/kg	10	Adopted	2001
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	1000 mg/kg	10	Adopted	2001
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	1000 mg/kg	10	Adopted	2001
10.4	Egg-based desserts (e.g., custard)	500 mg/kg	2 & 10	Adopted	2001
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	200 mg/kg	10	Adopted	2003
12.2	Herbs, spices, seasonings and condiments (e.g., seasoning for instant noodles)	500 mg/kg	10	Adopted	2001
12.4	Mustards	500 mg/kg	10	Adopted	2003
12.5	Soups and broths	200 mg/kg	10	Adopted	2001
12.6.1	Emulsified sauces and dips (e.g., mayonnaise, salad dressing, onion dip)	500 mg/kg	10 & 15	Adopted	2001
12.6.2	Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy)	500 mg/kg	10	Adopted	2005
12.6.3	Mixes for sauces and gravies	200 mg/kg	10	Adopted	2001
12.6.4	Clear sauces (e.g., fish sauce)	200 mg/kg	10	Adopted	2001

ASCORBYL ESTERS

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
12.7	Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	200 mg/kg	10	Adopted	2001
13.1.1	Infant formulae	10 mg/kg	15, 72 & 187	Adopted	2009
13.1.2	Follow-up formulae	50 mg/kg	15 & 72	Adopted	2009
13.1.3	Formulae for special medical purposes for infants	10 mg/kg	10, 15 & 72	Adopted	2006
13.2	Complementary foods for infants and young children	100 mg/kg	10 & 15	Adopted	2010
13.4	Dietetic formulae for slimming purposes and weight reduction	500 mg/kg	10	Adopted	2005
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	500 mg/kg	10	Adopted	2009
13.6	Food supplements	500 mg/kg	10	Adopted	2003
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	1000 mg/kg	10 & 15	Adopted	2001
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	200 mg/kg	10	Adopted	2001
15.2	Processed nuts, including coated nuts and nut mixtures (with e.g., dried fruit)	200 mg/kg	10	Adopted	2001

ASPARTAME

INS 951

Aspartame

Functional Class: Flavour enhancer, Sweetener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	600 mg/kg	161 & 191	Adopted	2007
01.3.2	Beverage whiteners	6000 mg/kg	161 & 191	Adopted	2008
01.4.4	Cream analogues	1000 mg/kg	161 & 191	Adopted	2008
01.5.2	Milk and cream powder analogues	2000 mg/kg	161 & 191	Adopted	2007
01.6.1	Unripened cheese	1000 mg/kg	161 & 191	Adopted	2008
01.6.5	Cheese analogues	1000 mg/kg	161 & 191	Adopted	2008
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	1000 mg/kg	161 & 191	Adopted	2007
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	1000 mg/kg	161 & 191	Adopted	2008
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	1000 mg/kg	161 & 191	Adopted	2007
03.0	Edible ices, including sherbet and sorbet	1000 mg/kg	161 & 191	Adopted	2007
04.1.2.1	Frozen fruit	2000 mg/kg	161 & 191	Adopted	2008
04.1.2.2	Dried fruit	2000 mg/kg	161 & 191	Adopted	2008
04.1.2.3	Fruit in vinegar, oil, or brine	300 mg/kg	144 & 191	Adopted	2007
04.1.2.4	Canned or bottled (pasteurized) fruit	1000 mg/kg	161 & 191	Adopted	2007
04.1.2.5	Jams, jellies, marmelades	1000 mg/kg	161 & 191	Adopted	2007

ASPARTAME

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.1.2.6	Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5	1000 mg/kg	161 & 191	Adopted	2007
04.1.2.7	Candied fruit	2000 mg/kg	161 & 191	Adopted	2007
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	1000 mg/kg	161 & 191	Adopted	2007
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	1000 mg/kg	161 & 191	Adopted	2007
04.1.2.10	Fermented fruit products	1000 mg/kg	161 & 191	Adopted	2007
04.1.2.11	Fruit fillings for pastries	1000 mg/kg	161 & 191	Adopted	2007
04.1.2.12	Cooked fruit	1000 mg/kg	161 & 191	Adopted	2007
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	1000 mg/kg	161 & 191	Adopted	2008
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	1000 mg/kg	161 & 191	Adopted	2008
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	300 mg/kg	144 & 191	Adopted	2007
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	1000 mg/kg	161 & 191	Adopted	2008
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g., peanut butter)	1000 mg/kg	161 & 191	Adopted	2008
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	1000 mg/kg	161 & 191	Adopted	2008
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	2500 mg/kg	161 & 191	Adopted	2008
04.2.2.8	Cooked or fried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	1000 mg/kg	161 & 191	Adopted	2008
05.1.1	Cocoa mixes (powders) and cocoa mass/cake	3000 mg/kg	97 & 191	Adopted	2007
05.1.2	Cocoa mixes (syrops)	1000 mg/kg	161 & 191	Adopted	2007
05.1.3	Cocoa-based spreads, including fillings	3000 mg/kg	161 & 191	Adopted	2008
05.1.4	Cocoa and chocolate products	3000 mg/kg	161 & 191	Adopted	2008
05.1.5	Imitation chocolate, chocolate substitute products	3000 mg/kg	161 & 191	Adopted	2008
05.2.1	Hard candy	3000 mg/kg	161 & 148	Adopted	2008
05.2.2	Soft candy	3000 mg/kg	161 & 148	Adopted	2008
05.2.3	Nougats and marzipans	3000 mg/kg	161 & 191	Adopted	2008
05.3	Chewing gum	10000 mg/kg	161 & 191	Adopted	2007
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	1000 mg/kg	161 & 191	Adopted	2007

ASPARTAME

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
06.3	Breakfast cereals, including rolled oats	1000 mg/kg	161 & 191	Adopted	2007
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	1000 mg/kg	161 & 191	Adopted	2007
07.1	Bread and ordinary bakery wares	4000 mg/kg	161 & 191	Adopted	2008
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	1700 mg/kg	165 & 191	Adopted	2007
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	300 mg/kg	144 & 191	Adopted	2007
09.3	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms	300 mg/kg	144 & 191	Adopted	2007
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	300 mg/kg	144 & 191	Adopted	2007
10.4	Egg-based desserts (e.g., custard)	1000 mg/kg	161 & 191	Adopted	2007
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	3000 mg/kg	159 & 191	Adopted	2007
11.6	Table-top sweeteners, including those containing high-intensity sweeteners	GMP	191	Adopted	2007
12.2.2	Seasonings and condiments	2000 mg/kg	161 & 191	Adopted	2008
12.3	Vinegars	3000 mg/kg	161 & 191	Adopted	2008
12.4	Mustards	350 mg/kg	191	Adopted	2007
12.5	Soups and broths	1200 mg/kg	161 & 188	Adopted	2009
12.6	Sauces and like products	350 mg/kg	191	Adopted	2007
12.7	Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	350 mg/kg	161 & 166	Adopted	2007
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	1000 mg/kg	191	Adopted	2007
13.4	Dietetic formulae for slimming purposes and weight reduction	800 mg/kg	191	Adopted	2007
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	1000 mg/kg	191	Adopted	2007
13.6	Food supplements	5500 mg/kg	191	Adopted	2007
14.1.3.1	Fruit nectar	600 mg/kg	191	Adopted	2005
14.1.3.2	Vegetable nectar	600 mg/kg	161 & 191	Adopted	2007
14.1.3.3	Concentrates for fruit nectar	600 mg/kg	127 & 191	Adopted	2005
14.1.3.4	Concentrates for vegetable nectar	600 mg/kg	127 & 161	Adopted	2007
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	600 mg/kg	161 & 191	Adopted	2007
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	600 mg/kg	160 & 161	Adopted	2007
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	600 mg/kg	191	Adopted	2007
15.0	Ready-to-eat savouries	500 mg/kg	191	Adopted	2008

ASPARTAME-ACESULFAME SALT

ASPARTAME-ACESULFAME SALT

INS 962 Aspartame-acesulfame salt Functional Class: Sweetener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	350 mg/kg	113 & 161	Adopted	2009
01.3.2	Beverage whiteners	4540 mg/kg	113	3	
01.4.4	Cream analogues	1550 mg/kg	119	3	
01.5.2	Milk and cream powder analogues	3100 mg/kg	119	3	
01.6.5	Cheese analogues	790 mg/kg	113	3	
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	350 mg/kg	113 & 161	Adopted	2009
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	1550 mg/kg	119	3	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	350 mg/kg	113 & 161	Adopted	2009
03.0	Edible ices, including sherbet and sorbet	1550 mg/kg	113 & 161	3	
04.1.2.1	Frozen fruit	1130 mg/kg	113	3	
04.1.2.2	Dried fruit	1130 mg/kg	113	3	
04.1.2.3	Fruit in vinegar, oil, or brine	450 mg/kg	113 & 144	3	
04.1.2.4	Canned or bottled (pasteurized) fruit	350 mg/kg	113 & 161	Adopted	2009
04.1.2.5	Jams, jellies, marmelades	1000 mg/kg	119 & 161	Adopted	2009
04.1.2.6	Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5	2270 mg/kg	113 & 138	3	
04.1.2.7	Candied fruit	1130 mg/kg	113	3	
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	350 mg/kg	113 & 161	Adopted	2009
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	350 mg/kg	113 & 161	Adopted	2009
04.1.2.10	Fermented fruit products	790 mg/kg	113	3	
04.1.2.11	Fruit fillings for pastries	790 mg/kg	113	3	
04.1.2.12	Cooked fruit	1130 mg/kg	113	3	
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	200 mg/kg	113 & 161	Adopted	2009
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	790 mg/kg	113	3	
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g., peanut butter)	4660 mg/kg	119	3	
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	350 mg/kg	113 & 161	Adopted	2009

ASPARTAME-ACESULFAME SALT

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	2270 mg/kg	113	3	
05.1.2	Cocoa mixes (syrups)	1130 mg/kg	113	3	
05.1.3	Cocoa-based spreads, including fillings	4540 mg/kg	113 & 145	3	
05.1.4	Cocoa and chocolate products	2270 mg/kg	113 & 145	3	
05.1.5	Imitation chocolate, chocolate substitute products	500 mg/kg	113 & 161	Adopted	2009
05.3	Chewing gum	4540 mg/kg	68 & 113	3	
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	1130 mg/kg	113	3	
06.3	Breakfast cereals, including rolled oats	1550 mg/kg	119 & 145	3	
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	790 mg/kg	113 & 145	3	
07.1	Bread and ordinary bakery wares	2270 mg/kg	113	3	
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	1000 mg/kg	77 & 113	Adopted	2009
09.3	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms	200 mg/kg	113	Adopted	2009
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	200 mg/kg	113	Adopted	2009
10.4	Egg-based desserts (e.g., custard)	790 mg/kg	113 & 145	3	
11.6	Table-top sweeteners, including those containing high-intensity sweeteners	GMP		Adopted	2012
12.2.2	Seasonings and condiments	3100 mg/kg	113	3	
12.4	Mustards	540 mg/kg	119	3	
12.5	Soups and broths	250 mg/kg	113 & 138	3	
12.7	Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	1550 mg/kg	113 & 145	3	
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	500 mg/kg	113	Adopted	2012
13.4	Dietetic formulae for slimming purposes and weight reduction	450 mg/kg	113	Adopted	2009
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	450 mg/kg	113	Adopted	2009
13.6	Food supplements	2000 mg/kg	113	Adopted	2012
14.1.3.1	Fruit nectar	350 mg/kg	113	3	
14.1.3.3	Concentrates for fruit nectar	350 mg/kg	113 & 127	3	
14.1.3.4	Concentrates for vegetable nectar	3100 mg/kg	113	3	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	930 mg/kg	119 & 145	3	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	1360 mg/kg	113	3	
14.2.1	Beer and malt beverages	790 mg/kg	113 & 138	3	

ASPARTAME-ACESULFAME SALT

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	350 mg/kg	113	Adopted	2010
15.0	Ready-to-eat savouries	770 mg/kg	119 & 144	3	

AZODICARBONAMIDE

INS 927a Azodicarbonamide Functional Class: Flour treatment agent

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
06.2.1	Flours	45 mg/kg		Adopted	1999

AZORUBINE (CARMOISINE)

INS 122 Azorubine (Carmoisine) Functional Class: Colour

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	150 mg/kg	52	7	
01.6.1	Unripened cheese	GMP	3	7	
01.6.2.2	Rind of ripened cheese	GMP		7	
01.6.4	Processed cheese	200 mg/kg		7	
01.6.5	Cheese analogues	GMP	3	7	
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	150 mg/kg		7	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	150 mg/kg		7	
03.0	Edible ices, including sherbet and sorbet	150 mg/kg		7	
04.1.1.2	Surface-treated fresh fruit	500 mg/kg	4 & 16	7	
04.1.2.4	Canned or bottled (pasteurized) fruit	200 mg/kg		7	
04.1.2.5	Jams, jellies, marmelades	500 mg/kg		7	
04.1.2.6	Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5	500 mg/kg		7	
04.1.2.7	Candied fruit	200 mg/kg		7	
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	500 mg/kg	182	7	
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	150 mg/kg		7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	500 mg/kg	4 & 16	7	
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	500 mg/kg		7	
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	200 mg/kg		7	

AZORUBINE (CARMOISINE)

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	200 mg/kg	92	7	
05.1	Cocoa products and chocolate products including imitations and chocolate substitutes	50 mg/kg		7	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	300 mg/kg		7	
05.3	Chewing gum	300 mg/kg		7	
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	500 mg/kg		7	
06.3	Breakfast cereals, including rolled oats	200 mg/kg		7	
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	150 mg/kg		7	
07.1.2	Crackers, excluding sweet crackers	50 mg/kg		4	
07.1.3	Other ordinary bakery products (e.g., bagels, pita, English muffins)	50 mg/kg		4	
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	200 mg/kg		7	
08.0	Meat and meat products, including poultry and game	500 mg/kg	16	7	
09.1.1	Fresh fish	300 mg/kg	4, 16 & 50	7	
09.1.2	Fresh mollusks, crustaceans, and echinoderms	500 mg/kg	4 & 16	7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	95	7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	16	7	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	16	7	
09.2.4.1	Cooked fish and fish products	500 mg/kg		7	
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	250 mg/kg		7	
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	16	7	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	22	7	
09.3.1	Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly	500 mg/kg	16	7	
09.3.2	Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine	500 mg/kg	16	7	
09.3.3	Salmon substitutes, caviar, and other fish roe products	500 mg/kg		7	
09.3.4	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3	500 mg/kg		7	
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg		7	
10.1	Fresh eggs	GMP	4	7	
10.4	Egg-based desserts (e.g., custard)	50 mg/kg		7	
12.2.2	Seasonings and condiments	500 mg/kg		7	

AZORUBINE (CARMOISINE)

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
12.4	Mustards	300 mg/kg		7	
12.5	Soups and broths	300 mg/kg		7	
12.6	Sauces and like products	500 mg/kg		7	
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	50 mg/kg		7	
13.4	Dietetic formulae for slimming purposes and weight reduction	50 mg/kg		7	
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	300 mg/kg		7	
13.6	Food supplements	300 mg/kg		7	
14.1.2.2	Vegetable juice	GMP		7	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	100 mg/kg		7	
14.2.2	Cider and perry	200 mg/kg		7	
14.2.4	Wines (other than grape)	200 mg/kg		7	
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	200 mg/kg		7	
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	200 mg/kg		7	
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	550 mg/kg		4	
15.2	Processed nuts, including coated nuts and nut mixtures (with e.g., dried fruit)	100 mg/kg		7	

BEESWAX

INS 901

Beeswax

Functional Class: Carrier, Emulsifier, Glazing agent, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.1.1.2	Surface-treated fresh fruit	GMP		Adopted	2003
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	79	Adopted	2003
05.1.4	Cocoa and chocolate products	GMP	3	Adopted	2001
05.1.5	Imitation chocolate, chocolate substitute products	GMP	3	Adopted	2001
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	GMP	3	Adopted	2001
05.3	Chewing gum	GMP		Adopted	2003
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	GMP		Adopted	2003
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	GMP	3	Adopted	2001
13.6	Food supplements	GMP	3	Adopted	2001
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	200 mg/kg	131	Adopted	2006
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	108	Adopted	2001

BEESWAX

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
15.0	Ready-to-eat savouries	GMP	3	Adopted	2001

BEET RED

INS 162 Beet red Functional Class: Colour

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.4.1	Pasteurized cream (plain)	GMP		7	
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		7	
02.1.2	Vegetable oils and fats	GMP		7	
02.1.3	Lard, tallow, fish oil, and other animal fats	GMP		7	
04.1.1.2	Surface-treated fresh fruit	GMP	4 & 16	7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	4 & 16	7	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP		4	
06.1	Whole, broken, or flaked grain, including rice	GMP	184	7	
06.4.2	Dried pastas and noodles and like products	GMP		7	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP	4 & 16	7	
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	4, 16 & 117	7	
09.1.1	Fresh fish	GMP	4, 16 & 50	7	
09.1.2	Fresh mollusks, crustaceans, and echinoderms	GMP	4 & 16	7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.4.1	Cooked fish and fish products	GMP		7	
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	GMP		7	
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	22	7	
10.1	Fresh eggs	GMP	4	7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	GMP		7	
14.2.3.2	Sparkling and semi-sparkling grape wines	GMP		7	
14.2.3.3	Fortified grape wine, grape liquor wine, and sweet grape wine	GMP		7	

BENZOATES

BENZOATES

INS 210	Benzoic acid	Functional Class: Preservative
INS 211	Sodium benzoate	Functional Class: Preservative
INS 212	Potassium benzoate	Functional Class: Preservative
INS 213	Calcium benzoate	Functional Class: Preservative

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	300 mg/kg	13	Adopted	2001
02.2.2	Fat spreads, dairy fat spreads and blended spreads	1000 mg/kg	13	Adopted	2001
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	1000 mg/kg	13	Adopted	2001
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	1000 mg/kg	13	Adopted	2001
04.1.2.2	Dried fruit	800 mg/kg	13	Adopted	2003
04.1.2.3	Fruit in vinegar, oil, or brine	1000 mg/kg	13	Adopted	2001
04.1.2.5	Jams, jellies, marmelades	1000 mg/kg	13	Adopted	2001
04.1.2.6	Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5	1000 mg/kg	13	Adopted	2001
04.1.2.7	Candied fruit	1000 mg/kg	13	Adopted	2001
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	1000 mg/kg	13	Adopted	2001
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	1000 mg/kg	13	Adopted	2001
04.1.2.10	Fermented fruit products	1000 mg/kg	13	Adopted	2001
04.1.2.11	Fruit fillings for pastries	1000 mg/kg	13	Adopted	2001
04.1.2.12	Cooked fruit	1000 mg/kg	13	Adopted	2001
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	1000 mg/kg	13	Adopted	2003
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	2000 mg/kg	13	Adopted	2001
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g., peanut butter)	1000 mg/kg	13	Adopted	2001
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	3000 mg/kg	13	Adopted	2001
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	1000 mg/kg	13	Adopted	2001
04.2.2.8	Cooked or fried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	1000 mg/kg	13	Adopted	2001

BENZOATES

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
05.1.3	Cocoa-based spreads, including fillings	1500 mg/kg	13	Adopted	2003
05.1.5	Imitation chocolate, chocolate substitute products	1500 mg/kg	13	Adopted	2003
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	1500 mg/kg	13	Adopted	2003
05.3	Chewing gum	1500 mg/kg	13	Adopted	2005
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	1500 mg/kg	13	Adopted	2003
06.4.3	Pre-cooked pastas and noodles and like products	1000 mg/kg	13	Adopted	2004
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	1000 mg/kg	13	Adopted	2003
07.0	Bakery wares	1000 mg/kg	13	Adopted	2004
08.2.1.2	Cured (including salted) and dried non-heat treated processed meat, poultry, and game products in whole pieces or cuts	1000 mg/kg	3 & 13	Adopted	2005
08.3.1.2	Cured (including salted) and dried non-heat treated processed comminuted meat, poultry, and game products	1000 mg/kg	3 & 13	Adopted	2005
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	2000 mg/kg	13 & 82	Adopted	2003
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	200 mg/kg	13 & 121	Adopted	2004
09.3	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms	2000 mg/kg	13 & 120	Adopted	2003
10.2.1	Liquid egg products	5000 mg/kg	13	Adopted	2003
10.4	Egg-based desserts (e.g., custard)	1000 mg/kg	13	Adopted	2003
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	1000 mg/kg	13	Adopted	2003
11.6	Table-top sweeteners, including those containing high-intensity sweeteners	2000 mg/kg	13	Adopted	2003
12.2.2	Seasonings and condiments	1000 mg/kg	13	Adopted	2003
12.3	Vinegars	1000 mg/kg	13	Adopted	2003
12.4	Mustards	1000 mg/kg	13	Adopted	2003
12.5	Soups and broths	500 mg/kg	13	Adopted	2001
12.6	Sauces and like products	1000 mg/kg	13	Adopted	2003
12.7	Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	1500 mg/kg	13	Adopted	2003
12.9.1	Fermented soybean paste (e.g., miso)	1000 mg/kg	13	3	
12.9.2.1	Fermented soybean sauce	1000 mg/kg	13	3	
12.9.2.2	Non-fermented soybean sauce	1000 mg/kg	13	3	
12.9.2.3	Other soybean sauces	1000 mg/kg	13	3	
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	1500 mg/kg	13	Adopted	2003
13.4	Dietetic formulae for slimming purposes and weight reduction	1500 mg/kg	13	Adopted	2003
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	2000 mg/kg	13	Adopted	2003

BENZOATES

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
13.6	Food supplements	2000 mg/kg	13	Adopted	2003
14.1.2.1	Fruit juice	1000 mg/kg	13, 91 & 122	Adopted	2004
14.1.2.3	Concentrates for fruit juice	1000 mg/kg	13, 91, 122 & 127	Adopted	2004
14.1.3.1	Fruit nectar	1000 mg/kg	13, 91 & 122	Adopted	2004
14.1.3.3	Concentrates for fruit nectar	1000 mg/kg	13, 91, 122 & 127	Adopted	2004
14.1.3.4	Concentrates for vegetable nectar	600 mg/kg	13	Adopted	2004
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	600 mg/kg	13, 123 & 301	Adopted	2004
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	1000 mg/kg	13	Adopted	2004
14.2.2	Cider and perry	1000 mg/kg	13 & 124	Adopted	2004
14.2.4	Wines (other than grape)	1000 mg/kg	13	Adopted	2003
14.2.5	Mead	1000 mg/kg	13	Adopted	2004
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	1000 mg/kg	13	Adopted	2003
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	1000 mg/kg	13	Adopted	2004

BENZOYL PEROXIDE

INS 928 Benzoyl peroxide Functional Class: Bleaching agent, Flour treatment agent, Preservative

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.8.1	Liquid whey and whey products, excluding whey cheeses	100 mg/kg	74	Adopted	2007
01.8.2	Dried whey and whey products, excluding whey cheeses	100 mg/kg	147	Adopted	2005
06.2.1	Flours	75 mg/kg		Adopted	2007

BLEACHED STARCH

INS 1403 Bleached starch Functional Class: Emulsifier, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235	Adopted	2013
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.2.2	Renneted milk (plain)	GMP		Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	236	Adopted	2013
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	10000 mg/kg		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	10000 mg/kg		7	

BRILLIANT BLACK (BLACK PN)

BRILLIANT BLACK (BLACK PN)

INS 151 Brilliant black (Black PN) Functional Class: Colour

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	150 mg/kg	52	7	
01.6.1	Unripened cheese	GMP	3	7	
01.6.2.2	Rind of ripened cheese	GMP		7	
01.6.4	Processed cheese	200 mg/kg		7	
01.6.5	Cheese analogues	GMP	3	7	
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	150 mg/kg		7	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	150 mg/kg		7	
03.0	Edible ices, including sherbet and sorbet	150 mg/kg		7	
04.1.1.2	Surface-treated fresh fruit	500 mg/kg	4 & 16	7	
04.1.2.4	Canned or bottled (pasteurized) fruit	200 mg/kg		7	
04.1.2.5	Jams, jellies, marmelades	500 mg/kg		7	
04.1.2.6	Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5	500 mg/kg		7	
04.1.2.7	Candied fruit	200 mg/kg		7	
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	500 mg/kg	182	7	
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	150 mg/kg		7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	500 mg/kg	4 & 16	7	
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	500 mg/kg		7	
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	200 mg/kg		7	
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	200 mg/kg	92	7	
05.1.4	Cocoa and chocolate products	300 mg/kg	183	7	
05.1.5	Imitation chocolate, chocolate substitute products	300 mg/kg		7	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	300 mg/kg		7	
05.3	Chewing gum	300 mg/kg		7	
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	500 mg/kg		7	
06.3	Breakfast cereals, including rolled oats	200 mg/kg		7	

BRILLIANT BLACK (BLACK PN)

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	150 mg/kg		7	
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	200 mg/kg		7	
08.0	Meat and meat products, including poultry and game	500 mg/kg	4 & 16	7	
09.1.1	Fresh fish	300 mg/kg	4, 16 & 50	7	
09.1.2	Fresh mollusks, crustaceans, and echinoderms	500 mg/kg	4 & 16	7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	95	7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	16	7	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	16	7	
09.2.4.1	Cooked fish and fish products	500 mg/kg		7	
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	250 mg/kg		7	
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	16	7	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	22	7	
09.3.1	Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly	500 mg/kg	16	7	
09.3.2	Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine	500 mg/kg	16	7	
09.3.3	Salmon substitutes, caviar, and other fish roe products	500 mg/kg		7	
09.3.4	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3	500 mg/kg		7	
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg		7	
10.1	Fresh eggs	GMP	4	7	
10.4	Egg-based desserts (e.g., custard)	150 mg/kg		7	
12.2.2	Seasonings and condiments	500 mg/kg		7	
12.4	Mustards	300 mg/kg		7	
12.5	Soups and broths	300 mg/kg		7	
12.6	Sauces and like products	500 mg/kg		7	
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	50 mg/kg		7	
13.4	Dietetic formulae for slimming purposes and weight reduction	50 mg/kg		7	
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	300 mg/kg		7	
13.6	Food supplements	300 mg/kg		7	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	100 mg/kg		7	
14.2.2	Cider and perry	200 mg/kg		7	
14.2.4	Wines (other than grape)	200 mg/kg		7	

BRILLIANT BLACK (BLACK PN)

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	200 mg/kg		7	
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	200 mg/kg		7	
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	200 mg/kg		7	
15.2	Processed nuts, including coated nuts and nut mixtures (with e.g., dried fruit)	100 mg/kg		7	

BRILLIANT BLUE FCF

INS 133

Brilliant blue FCF

Functional Class: Colour

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	150 mg/kg	52	Adopted	2008
01.6.2.2	Rind of ripened cheese	100 mg/kg		Adopted	2005
01.6.5	Cheese analogues	100 mg/kg	3	Adopted	2009
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	150 mg/kg		Adopted	2005
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	100 mg/kg		Adopted	2005
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	150 mg/kg		Adopted	2005
03.0	Edible ices, including sherbet and sorbet	150 mg/kg		Adopted	2005
04.1.2.4	Canned or bottled (pasteurized) fruit	200 mg/kg	161	Adopted	2009
04.1.2.5	Jams, jellies, marmelades	100 mg/kg	161	Adopted	2009
04.1.2.6	Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5	100 mg/kg	161	Adopted	2009
04.1.2.7	Candied fruit	100 mg/kg	161	Adopted	2009
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	100 mg/kg	161 & 182	Adopted	2009
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	150 mg/kg		Adopted	2005
04.1.2.11	Fruit fillings for pastries	250 mg/kg		Adopted	2005
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	500 mg/kg	161	Adopted	2009
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	200 mg/kg	161	Adopted	2009
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	100 mg/kg	92 & 161	Adopted	2009

BRILLIANT BLUE FCF

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	100 mg/kg	92 & 161	Adopted	2009
05.1.3	Cocoa-based spreads, including fillings	100 mg/kg	161	Adopted	2009
05.1.4	Cocoa and chocolate products	100 mg/kg	183	Adopted	2009
05.1.5	Imitation chocolate, chocolate substitute products	100 mg/kg		Adopted	2009
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	300 mg/kg		Adopted	2005
05.3	Chewing gum	300 mg/kg		Adopted	2005
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	500 mg/kg		Adopted	2005
06.3	Breakfast cereals, including rolled oats	200 mg/kg		Adopted	2005
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	150 mg/kg		Adopted	2005
07.1	Bread and ordinary bakery wares	100 mg/kg	161	Adopted	2009
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	200 mg/kg	161	Adopted	2009
08.0	Meat and meat products, including poultry and game	100 mg/kg	4 & 16	Adopted	2009
09.1.1	Fresh fish	300 mg/kg	4, 16 & 50	Adopted	2008
09.1.2	Fresh mollusks, crustaceans, and echinoderms	500 mg/kg	4 & 16	Adopted	2005
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	95	Adopted	2005
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	16	Adopted	2005
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	16	Adopted	2005
09.2.4.1	Cooked fish and fish products	100 mg/kg	95	Adopted	2009
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	100 mg/kg		Adopted	2009
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	16	Adopted	2005
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	100 mg/kg	22	Adopted	2009
09.3.1	Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly	500 mg/kg	16	Adopted	2005
09.3.2	Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine	500 mg/kg	16	Adopted	2005
09.3.3	Salmon substitutes, caviar, and other fish roe products	500 mg/kg		Adopted	2005
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg		Adopted	2005
10.1	Fresh eggs	GMP	4	Adopted	2005
10.4	Egg-based desserts (e.g., custard)	150 mg/kg		Adopted	2005
12.2.2	Seasonings and condiments	100 mg/kg		Adopted	2009
12.4	Mustards	100 mg/kg		Adopted	2009
12.5	Soups and broths	50 mg/kg		Adopted	2009

BRILLIANT BLUE FCF

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
12.6	Sauces and like products	100 mg/kg		Adopted	2009
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	50 mg/kg		Adopted	2005
13.4	Dietetic formulae for slimming purposes and weight reduction	50 mg/kg		Adopted	2005
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	300 mg/kg		Adopted	2005
13.6	Food supplements	300 mg/kg		Adopted	2005
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	100 mg/kg		Adopted	2005
14.2.2	Cider and perry	200 mg/kg		Adopted	2005
14.2.4	Wines (other than grape)	200 mg/kg		Adopted	2005
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	200 mg/kg		Adopted	2005
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	200 mg/kg		Adopted	2005
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	200 mg/kg		Adopted	2005
15.2	Processed nuts, including coated nuts and nut mixtures (with e.g., dried fruit)	100 mg/kg		Adopted	2005

BROMELAIN

INS 1101(iii) Bromelain

Functional Class: Flavour enhancer, Flour treatment agent, Stabilizer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP		7	
14.2.3.2	Sparkling and semi-sparkling grape wines	GMP		7	

BROWN HT

INS 155 Brown HT

Functional Class: Colour

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	150 mg/kg	52	7	
01.6.1	Unripened cheese	GMP	3	7	
01.6.2.2	Rind of ripened cheese	GMP		7	
01.6.4	Processed cheese	200 mg/kg		7	
01.6.5	Cheese analogues	GMP	3	7	
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	150 mg/kg		7	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	150 mg/kg		7	
03.0	Edible ices, including sherbet and sorbet	150 mg/kg		7	

BROWN HT

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.1.1.2	Surface-treated fresh fruit	500 mg/kg	4 & 16	7	
04.1.2.4	Canned or bottled (pasteurized) fruit	200 mg/kg		7	
04.1.2.5	Jams, jellies, marmelades	500 mg/kg		7	
04.1.2.6	Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5	500 mg/kg		7	
04.1.2.7	Candied fruit	200 mg/kg		7	
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	500 mg/kg	182	7	
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	150 mg/kg		7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	500 mg/kg	4 & 16	7	
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	500 mg/kg		7	
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	200 mg/kg		7	
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	200 mg/kg	92	7	
05.1.4	Cocoa and chocolate products	80 mg/kg	183	7	
05.1.5	Imitation chocolate, chocolate substitute products	80 mg/kg		7	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	300 mg/kg		7	
05.3	Chewing gum	300 mg/kg		7	
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	500 mg/kg		7	
06.3	Breakfast cereals, including rolled oats	200 mg/kg		7	
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	150 mg/kg		7	
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	200 mg/kg		7	
08.0	Meat and meat products, including poultry and game	500 mg/kg	16	7	
09.1.1	Fresh fish	300 mg/kg	4, 16 & 50	7	
09.1.2	Fresh mollusks, crustaceans, and echinoderms	500 mg/kg	4 & 16	7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	95	7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	16	7	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	16	7	
09.2.4.1	Cooked fish and fish products	500 mg/kg		7	
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	250 mg/kg		7	
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	16	7	

BROWN HT

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	22	7	
09.3.1	Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly	500 mg/kg	16	7	
09.3.2	Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine	500 mg/kg	16	7	
09.3.3	Salmon substitutes, caviar, and other fish roe products	500 mg/kg		7	
09.3.4	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3	500 mg/kg		7	
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg		7	
10.1	Fresh eggs	GMP	4	7	
10.4	Egg-based desserts (e.g., custard)	50 mg/kg		7	
12.2.2	Seasonings and condiments	500 mg/kg		7	
12.4	Mustards	300 mg/kg		7	
12.5	Soups and broths	300 mg/kg		7	
12.6	Sauces and like products	500 mg/kg		7	
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	50 mg/kg		7	
13.4	Dietetic formulae for slimming purposes and weight reduction	50 mg/kg		7	
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	300 mg/kg		7	
13.6	Food supplements	300 mg/kg		7	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	100 mg/kg		7	
14.2.2	Cider and perry	200 mg/kg		7	
14.2.4	Wines (other than grape)	200 mg/kg		7	
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	200 mg/kg		7	
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	200 mg/kg		7	
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	200 mg/kg		7	
15.2	Processed nuts, including coated nuts and nut mixtures (with e.g., dried fruit)	100 mg/kg		7	

BUTYLATED HYDROXYANISOLE

INS 320 Butylated hydroxyanisole (BHA) Functional Class: Antioxidant

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.3.2	Beverage whiteners	100 mg/kg	15 & 195	Adopted	2007
01.5.1	Milk powder and cream powder (plain)	100 mg/kg	15 & 196	Adopted	2006
02.1.1	Butter oil, anhydrous milkfat, ghee	175 mg/kg	15, 133 & 171	Adopted	2006

BUTYLATED HYDROXYANISOLE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
02.1.2	Vegetable oils and fats	200 mg/kg	15 & 130	Adopted	2006
02.1.3	Lard, tallow, fish oil, and other animal fats	200 mg/kg	15 & 130	Adopted	2006
02.2.2	Fat spreads, dairy fat spreads and blended spreads	200 mg/kg	15 & 130	Adopted	2005
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	200 mg/kg	15 & 130	Adopted	2006
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	200 mg/kg	15 & 130	Adopted	2006
03.0	Edible ices, including sherbet and sorbet	200 mg/kg	15 & 195	Adopted	2006
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	200 mg/kg	15, 76 & 196	Adopted	2005
05.1.4	Cocoa and chocolate products	200 mg/kg	15, 130 & 141	Adopted	2006
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	200 mg/kg	15 & 130	Adopted	2007
05.3	Chewing gum	400 mg/kg	130	Adopted	2006
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	200 mg/kg	15 & 130	Adopted	2007
06.3	Breakfast cereals, including rolled oats	200 mg/kg	15 & 196	Adopted	2005
06.4.3	Pre-cooked pastas and noodles and like products	200 mg/kg	15 & 130	Adopted	2006
07.0	Bakery wares	200 mg/kg	15 & 180	Adopted	2007
08.2	Processed meat, poultry, and game products in whole pieces or cuts	200 mg/kg	15 & 130	Adopted	2005
08.3	Processed comminuted meat, poultry, and game products	200 mg/kg	15 & 130	Adopted	2005
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	200 mg/kg	15 & 180	Adopted	2006
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	200 mg/kg	15 & 180	Adopted	2006
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	200 mg/kg	15 & 196	Adopted	2006
09.3	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms	200 mg/kg	15 & 180	Adopted	2006
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	200 mg/kg	15 & 180	Adopted	2006
12.2	Herbs, spices, seasonings and condiments (e.g., seasoning for instant noodles)	200 mg/kg	15 & 130	Adopted	2005
12.5	Soups and broths	200 mg/kg	15 & 130	Adopted	2006
12.6	Sauces and like products	200 mg/kg	15 & 130	Adopted	2005
12.8	Yeast and like products	200 mg/kg	15	Adopted	2006
13.6	Food supplements	400 mg/kg	15 & 196	Adopted	2006
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	200 mg/kg	15 & 130	Adopted	2005
15.2	Processed nuts, including coated nuts and nut mixtures (with e.g., dried fruit)	200 mg/kg	15 & 130	Adopted	2005

BUTYLATED HYDROXYTOLUENE

BUTYLATED HYDROXYTOLUENE

INS 321 Butylated hydroxytoluene (BHT) Functional Class: Antioxidant

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.3.2	Beverage whiteners	100 mg/kg	15 & 195	Adopted	2007
01.5.1	Milk powder and cream powder (plain)	200 mg/kg	15 & 196	Adopted	2006
02.1.1	Butter oil, anhydrous milkfat, ghee	75 mg/kg	15, 133 & 171	Adopted	2006
02.1.2	Vegetable oils and fats	200 mg/kg	15 & 130	Adopted	2006
02.1.3	Lard, tallow, fish oil, and other animal fats	200 mg/kg	15 & 130	Adopted	2006
02.2.2	Fat spreads, dairy fat spreads and blended spreads	200 mg/kg	15 & 130	Adopted	2005
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	200 mg/kg	15 & 130	Adopted	2006
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	200 mg/kg	15 & 130	Adopted	2006
03.0	Edible ices, including sherbet and sorbet	100 mg/kg	15 & 195	Adopted	2006
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	200 mg/kg	15, 76 & 196	Adopted	2005
05.1.4	Cocoa and chocolate products	200 mg/kg	15, 130 & 141	Adopted	2006
05.1.5	Imitation chocolate, chocolate substitute products	200 mg/kg	15 & 197	Adopted	2006
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	200 mg/kg	15 & 130	Adopted	2007
05.3	Chewing gum	400 mg/kg	130	Adopted	2006
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	200 mg/kg	15 & 130	Adopted	2007
06.3	Breakfast cereals, including rolled oats	100 mg/kg	15 & 196	Adopted	2006
06.4.3	Pre-cooked pastas and noodles and like products	200 mg/kg	15 & 130	Adopted	2006
07.0	Bakery wares	200 mg/kg	15 & 180	Adopted	2007
08.2	Processed meat, poultry, and game products in whole pieces or cuts	100 mg/kg	15, 130 & 167	Adopted	2007
08.3	Processed comminuted meat, poultry, and game products	100 mg/kg	15, 130 & 162	Adopted	2007
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	200 mg/kg	15 & 180	Adopted	2006
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	200 mg/kg	15 & 180	Adopted	2006
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	200 mg/kg	15 & 196	Adopted	2006
09.3	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms	200 mg/kg	15 & 180	Adopted	2006
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	200 mg/kg	15 & 180	Adopted	2006
12.2	Herbs, spices, seasonings and condiments (e.g., seasoning for instant noodles)	200 mg/kg	15 & 130	Adopted	2006
12.5	Soups and broths	100 mg/kg	15 & 130	Adopted	2006

BUTYLATED HYDROXYTOLUENE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
12.6	Sauces and like products	100 mg/kg	15 & 130	Adopted	2006
13.6	Food supplements	400 mg/kg	15 & 196	Adopted	2006
15.0	Ready-to-eat savouries	200 mg/kg	15 & 130	Adopted	2006

CALCIUM 5'-GUANYLATE

INS 629 Calcium 5'-guanylate Functional Class: Flavour enhancer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
12.1.2	Salt Substitutes	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	

CALCIUM 5'-INOSINATE

INS 633 Calcium 5'-inosinate Functional Class: Flavour enhancer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
12.1.2	Salt Substitutes	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	

CALCIUM 5'-RIBONUCLEOTIDES

INS 634 Calcium 5'-ribonucleotides Functional Class: Flavour enhancer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP		4	
06.4.2	Dried pastas and noodles and like products	GMP		4	
12.1.2	Salt Substitutes	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	

CALCIUM ACETATE

INS 263 Calcium acetate Functional Class: Acidity regulator, Preservative, Stabilizer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	GMP	258	Adopted	2013
13.2	Complementary foods for infants and young children	GMP	239	Adopted	2013

CALCIUM ALGINATE

CALCIUM ALGINATE

INS 404 Calcium alginate

Functional Class: Antifoaming agent, Bulking agent, Carrier, Foaming agent, Gelling agent, Glazing agent, Humectant, Sequestrant, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1.2	Buttermilk (plain)	6000 mg/kg		7	
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
02.1.2	Vegetable oils and fats	5000 mg/kg		7	
02.1.3	Lard, tallow, fish oil, and other animal fats	5000 mg/kg		7	
04.1.1.2	Surface-treated fresh fruit	GMP		7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
06.4.2	Dried pastas and noodles and like products	GMP		7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	5000 mg/kg		7	
10.2.1	Liquid egg products	6000 mg/kg		7	
10.2.2	Frozen egg products	6000 mg/kg		7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	10000 mg/kg		7	
13.2	Complementary foods for infants and young children	5000 mg/kg		7	
14.2.3.2	Sparkling and semi-sparkling grape wines	GMP		7	

CALCIUM ALUMINIUM SILICATE

INS 556 Calcium aluminium silicate

Functional Class: Anticaking agent

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.5.1	Milk powder and cream powder (plain)	265 mg/kg	6 & 259	Adopted	2013
01.5.2	Milk and cream powder analogues	570 mg/kg	6 & 259	Adopted	2013
05.3	Chewing gum	100 mg/kg	6 & 174	Adopted	2013

CALCIUM ASCORBATE

INS 302 Calcium ascorbate

Functional Class: Antioxidant

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
02.1.2	Vegetable oils and fats	GMP		7	
02.1.3	Lard, tallow, fish oil, and other animal fats	GMP		7	

CALCIUM ASCORBATE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.1.1	Fresh fruit	GMP		7	
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
06.4.1	Fresh pastas and noodles and like products	200 mg/kg		4	
06.4.2	Dried pastas and noodles and like products	200 mg/kg		4	
08.1.2	Fresh meat, poultry, and game, comminuted	GMP		7	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	400 mg/kg		7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	15	7	
13.1.2	Follow-up formulae	50 mg/kg	70 & 72	7	
13.2	Complementary foods for infants and young children	3000 mg/kg		7	
14.1.2.1	Fruit juice	GMP		Adopted	2005
14.1.2.3	Concentrates for fruit juice	GMP	127	Adopted	2005
14.1.3.1	Fruit nectar	GMP		Adopted	2005
14.1.3.3	Concentrates for fruit nectar	GMP	127	Adopted	2005
14.2.3	Grape wines	GMP		7	

CALCIUM CARBONATE

INS 170(i) Calcium carbonate Functional Class: Acidity regulator, Anticaking agent, Colour, Firming agent, Flour treatment agent, Stabilizer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP		Adopted	2013
01.2.2	Renneted milk (plain)	GMP		Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
01.8.2	Dried whey and whey products, excluding whey cheeses	10000 mg/kg		Adopted	2006
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	4 & 16	7	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP		Adopted	2013
06.1	Whole, broken, or flaked grain, including rice	2220 mg/kg	184	7	
06.2	Flours and starches (including soybean powder)	10000 mg/kg	58	4	
06.2.1	Flours	GMP	57	7	

CALCIUM CARBONATE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
06.4.1	Fresh pastas and noodles and like products	GMP		Adopted	2013
06.4.2	Dried pastas and noodles and like products	GMP	256	Adopted	2013
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP	4 & 16	7	
08.1.2	Fresh meat, poultry, and game, comminuted	1500 mg/kg	4 & 16	7	
09.1.2	Fresh mollusks, crustaceans, and echinoderms	GMP	4 & 16	7	
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	10000 mg/kg	58	4	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	95	Adopted	2013
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	Adopted	2013
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16	Adopted	2013
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		Adopted	2013
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	266 & 267	Adopted	2013
12.1.1	Salt	GMP		Adopted	2006
12.1.2	Salt Substitutes	GMP		Adopted	2013
12.2.1	Herbs and spices	10000 mg/kg	51 & 58	4	
13.2	Complementary foods for infants and young children	GMP		Adopted	2013
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160	Adopted	2013
14.2.3	Grape wines	3500 mg/kg		7	

CALCIUM CHLORIDE

INS 509

Calcium chloride

Functional Class: Firming agent, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
01.8.2	Dried whey and whey products, excluding whey cheeses	GMP		Adopted	2006
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	800 mg/kg	58	7	
04.2.1.3	Peeled, cut or shredded fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	800 mg/kg	58	7	
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	4000 mg/kg		7	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP		Adopted	2013

CALCIUM CHLORIDE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	15000 mg/kg		7	
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	10000 mg/kg	58	4	
12.1.2	Salt Substitutes	10000 mg/kg	58	4	
12.2.1	Herbs and spices	10000 mg/kg	51 & 58	4	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	10000 mg/kg	58	4	

CALCIUM DI-L-GLUTAMATE

INS 623 Calcium di-L-glutamate Functional Class: Flavour enhancer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
12.1.2	Salt Substitutes	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	

CALCIUM GLUCONATE

INS 578 Calcium gluconate Functional Class: Acidity regulator, Firming agent, Sequestrant

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	800 mg/kg	58	7	
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	1000 mg/kg	58	7	

CALCIUM HYDROXIDE

INS 526 Calcium hydroxide Functional Class: Acidity regulator, Firming agent

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP		Adopted	2013
01.8.2	Dried whey and whey products, excluding whey cheeses	GMP		Adopted	2006
02.2.1	Butter	GMP		Adopted	2008
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	800 mg/kg	58	7	
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	1000 mg/kg	58	7	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP		7	
13.1.1	Infant formulae	2000 mg/kg	55 & 72	Adopted	2013
13.1.2	Follow-up formulae	GMP	72	Adopted	2013

CALCIUM HYDROXIDE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
13.1.3	Formulae for special medical purposes for infants	2000 mg/kg	55 & 72	Adopted	2013
13.2	Complementary foods for infants and young children	GMP	239	Adopted	2013

CALCIUM LACTATE

INS 327 Calcium lactate Functional Class: Acidity regulator, Firming agent, Flour treatment agent

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP		Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP		Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
02.1.3	Lard, tallow, fish oil, and other animal fats	GMP		7	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	10000 mg/kg	58	Adopted	2013
08.1.2	Fresh meat, poultry, and game, comminuted	6000 mg/kg		7	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	10000 mg/kg	58	4	
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	10000 mg/kg	58	4	
12.1.2	Salt Substitutes	GMP		Adopted	2013
12.2.1	Herbs and spices	10000 mg/kg	51 & 58	4	
13.2	Complementary foods for infants and young children	GMP	83 & 239	Adopted	2013
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160	Adopted	2013

CALCIUM MALATE, D,L-

INS 352(ii) Calcium malate, DL- Functional Class: Acidity regulator

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
14.2.3	Grape wines	GMP		7	

CALCIUM OXIDE

INS 529 Calcium oxide Functional Class: Acidity regulator, Flour treatment agent

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP		Adopted	2013
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP		7	

CALCIUM PROPIONATE

CALCIUM PROPIONATE

INS 282 Calcium propionate Functional Class: Preservative

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.6.6	Whey protein cheese	3000 mg/kg	70	Adopted	2006
06.2	Flours and starches (including soybean powder)	1000 mg/kg		4	
06.4.1	Fresh pastas and noodles and like products	1000 mg/kg		4	
06.4.2	Dried pastas and noodles and like products	1000 mg/kg		4	

CALCIUM SILICATE

INS 552 Calcium silicate Functional Class: Anticaking agent

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.8.2	Dried whey and whey products, excluding whey cheeses	10000 mg/kg		Adopted	2006
11.1.2	Powdered sugar, powdered dextrose	15000 mg/kg	56	Adopted	2006
12.1.1	Salt	GMP		Adopted	2006
12.1.2	Salt Substitutes	10000 mg/kg		7	

CALCIUM SULFATE

INS 516 Calcium sulfate Functional Class: Acidity regulator, Firming agent, Flour treatment agent, Sequestrant, Stabilizer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	800 mg/kg	58	7	
04.2.1.3	Peeled, cut or shredded fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	800 mg/kg	58	7	
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	3500 mg/kg		7	
06.2.1	Flours	GMP	57	7	
06.4.2	Dried pastas and noodles and like products	5000 mg/kg		7	
14.2.3.3	Fortified grape wine, grape liquor wine, and sweet grape wine	2000 mg/kg		7	

CANDELILLA WAX

INS 902 Candelilla wax Functional Class: Carrier, Emulsifier, Glazing agent, Thickener

CANDELILLA WAX

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.1.1.2	Surface-treated fresh fruit	GMP		Adopted	2003
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	79	Adopted	2003
05.1.4	Cocoa and chocolate products	GMP	3	Adopted	2001
05.1.5	Imitation chocolate, chocolate substitute products	GMP	3	Adopted	2001
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	GMP	3	Adopted	2001
05.3	Chewing gum	GMP		Adopted	2003
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	GMP		Adopted	2003
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	GMP	3	Adopted	2001
13.6	Food supplements	GMP	3	Adopted	2001
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	200 mg/kg	131	Adopted	2006
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	108	Adopted	2001
15.0	Ready-to-eat savouries	GMP	3	Adopted	2001

CANTHAXANTHIN

INS 161g

Canthaxanthin

Functional Class: Colour

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	15 mg/kg	52 & 170	Adopted	2011
01.6.1	Unripened cheese	15 mg/kg	201	Adopted	2011
01.6.2	Ripened cheese	15 mg/kg	201	Adopted	2011
01.6.4.2	Flavoured processed cheese, including containing fruit, vegetables, meat, etc.	15 mg/kg		Adopted	2011
01.6.5	Cheese analogues	15 mg/kg		Adopted	2011
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	15 mg/kg	170	Adopted	2011
02.2.2	Fat spreads, dairy fat spreads and blended spreads	15 mg/kg	214 & 215	Adopted	2011
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	15 mg/kg		Adopted	2011
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	15 mg/kg		Adopted	2011
04.1.2.5	Jams, jellies, marmelades	200 mg/kg	5	Adopted	2011
04.1.2.6	Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5	15 mg/kg		Adopted	2011
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	15 mg/kg		Adopted	2011
04.1.2.11	Fruit fillings for pastries	15 mg/kg		Adopted	2011

CANTHAXANTHIN

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	10 mg/kg		Adopted	2011
06.4.2	Dried pastas and noodles and like products	15 mg/kg	211	Adopted	2011
06.4.3	Pre-cooked pastas and noodles and like products	15 mg/kg	153	Adopted	2011
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	15 mg/kg		Adopted	2011
08.3.1.1	Cured (including salted) non-heat treated processed comminuted meat, poultry, and game products	100 mg/kg	4, 16 & 118	Adopted	2011
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	35 mg/kg	95	Adopted	2011
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	15 mg/kg	22	Adopted	2011
09.3.3	Salmon substitutes, caviar, and other fish roe products	15 mg/kg		Adopted	2011
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	15 mg/kg		Adopted	2011
10.1	Fresh eggs	GMP	4	Adopted	2005
10.4	Egg-based desserts (e.g., custard)	15 mg/kg		Adopted	2011
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	15 mg/kg		Adopted	2011
12.2.2	Seasonings and condiments	20 mg/kg		Adopted	2011
12.5.2	Mixes for soups and broths	30 mg/kg	127	Adopted	2011
12.6	Sauces and like products	30 mg/kg		Adopted	2011
14.1.4.1	Carbonated water-based flavoured drinks	5 mg/kg		Adopted	2011
14.1.4.2	Non-carbonated water-based flavoured drinks, including punches and ades	5 mg/kg		Adopted	2011
14.1.4.3	Concentrates (liquid or solid) for water-based flavoured drinks	5 mg/kg	127	Adopted	2011
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	5 mg/kg		Adopted	2011
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	5 mg/kg		Adopted	2011
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	45 mg/kg		Adopted	2011

CARAMEL I - PLAIN CARAMEL

INS 150a Caramel I – plain caramel Functional Class: Colour

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.4.1	Pasteurized cream (plain)	GMP		7	
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		7	
04.1.1.2	Surface-treated fresh fruit	GMP	4 & 16	7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	4 & 16	7	

CARAMEL I - PLAIN CARAMEL

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP		4	
06.1	Whole, broken, or flaked grain, including rice	GMP	184	7	
06.4.2	Dried pastas and noodles and like products	GMP		7	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP	4 & 16	7	
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	4 & 16	7	
09.1.1	Fresh fish	GMP	4, 16 & 50	7	
09.1.2	Fresh mollusks, crustaceans, and echinoderms	GMP	4 & 16	7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	95	7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41	7	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.4.1	Cooked fish and fish products	GMP		7	
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	GMP		7	
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
10.1	Fresh eggs	GMP	4	7	
12.1.2	Salt Substitutes	GMP		4	
12.2.1	Herbs and spices	GMP	51	4	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160	4	
14.2.3	Grape wines	GMP		7	

CARAMEL II - SULFITE CARAMEL

INS 150b Caramel II - sulfite caramel Functional Class: Colour

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	50000 mg/kg	52	4	
01.6.1	Unripened cheese	50000 mg/kg		4	
01.6.2	Ripened cheese	50000 mg/kg		4	
01.6.4	Processed cheese	50000 mg/kg		4	
01.6.5	Cheese analogues	50000 mg/kg		4	
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	50000 mg/kg		4	
01.8.1	Liquid whey and whey products, excluding whey cheeses	50000 mg/kg		4	

CAMEL II - SULFITE CAMEL

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
02.1.2	Vegetable oils and fats	20000 mg/kg		4	
02.1.3	Lard, tallow, fish oil, and other animal fats	20000 mg/kg		4	
02.2.2	Fat spreads, dairy fat spreads and blended spreads	20000 mg/kg		4	
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	20000 mg/kg		4	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	20000 mg/kg		4	
03.0	Edible ices, including sherbet and sorbet	30000 mg/kg		4	
04.1.2	Processed fruit	80000 mg/kg	182	4	
04.2.2	Processed vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	80000 mg/kg	92	4	
05.0	Confectionery	50000 mg/kg	183	4	
06.3	Breakfast cereals, including rolled oats	50000 mg/kg		4	
06.4.2	Dried pastas and noodles and like products	50000 mg/kg		4	
06.4.3	Pre-cooked pastas and noodles and like products	50000 mg/kg	153	4	
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	50000 mg/kg		4	
06.6	Batters (e.g., for breading or batters for fish or poultry)	50000 mg/kg		4	
06.7	Pre-cooked or processed rice products, including rice cakes (Oriental type only)	50000 mg/kg		4	
07.0	Bakery wares	50000 mg/kg		4	
08.0	Meat and meat products, including poultry and game	200000 mg/kg	4 & 16	4	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	30000 mg/kg	4 & 16	4	
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	30000 mg/kg		4	
09.3	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms	30000 mg/kg		4	
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	30000 mg/kg		4	
10.1	Fresh eggs	20000 mg/kg	4	4	
10.2	Egg products	20000 mg/kg		4	
10.3	Preserved eggs, including alkaline, salted, and canned eggs	20000 mg/kg		4	
10.4	Egg-based desserts (e.g., custard)	20000 mg/kg		4	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	50000 mg/kg		4	
11.6	Table-top sweeteners, including those containing high-intensity sweeteners	50000 mg/kg		4	
12.2	Herbs, spices, seasonings and condiments (e.g., seasoning for instant noodles)	100000 mg/kg		4	
12.3	Vinegars	100000 mg/kg		4	
12.4	Mustards	100000 mg/kg		4	
12.5	Soups and broths	100000 mg/kg		4	

CARAMEL II - SULFITE CARAMEL

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
12.6	Sauces and like products	100000 mg/kg		4	
12.7	Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	100000 mg/kg		4	
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	20000 mg/kg		4	
13.4	Dietetic formulae for slimming purposes and weight reduction	20000 mg/kg		4	
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	20000 mg/kg		4	
13.6	Food supplements	35000 mg/kg		4	
14.1.2.2	Vegetable juice	50000 mg/kg		4	
14.1.2.4	Concentrates for vegetable juice	50000 mg/kg		4	
14.1.3.2	Vegetable nectar	50000 mg/kg		4	
14.1.3.4	Concentrates for vegetable nectar	50000 mg/kg		4	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	50000 mg/kg		4	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	50000 mg/kg	160	4	
14.2	Alcoholic beverages, including alcohol-free and low-alcoholic counterparts	50000 mg/kg		4	
15.0	Ready-to-eat savouries	10000 mg/kg		4	

CARAMEL III - AMMONIA CARAMEL

INS 150c Caramel III - ammonia caramel Functional Class: Colour

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	2000 mg/kg	52	Adopted	2009
01.3.2	Beverage whiteners	1000 mg/kg		Adopted	2009
01.4.4	Cream analogues	5000 mg/kg		Adopted	2010
01.5.2	Milk and cream powder analogues	5000 mg/kg		Adopted	2010
01.6.1	Unripened cheese	15000 mg/kg	201	Adopted	2012
01.6.2.2	Rind of ripened cheese	50000 mg/kg		Adopted	2010
01.6.4.2	Flavoured processed cheese, including containing fruit, vegetables, meat, etc.	50000 mg/kg		Adopted	2010
01.6.5	Cheese analogues	50000 mg/kg		Adopted	2010
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	2000 mg/kg		Adopted	1999
02.2.2	Fat spreads, dairy fat spreads and blended spreads	500 mg/kg		Adopted	2010
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	20000 mg/kg		Adopted	2010
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	20000 mg/kg		Adopted	2010

CARMEL III - AMMONIA CARMEL

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
03.0	Edible ices, including sherbet and sorbet	1000 mg/kg		Adopted	1999
04.1.2.3	Fruit in vinegar, oil, or brine	200 mg/kg		Adopted	2010
04.1.2.4	Canned or bottled (pasteurized) fruit	200 mg/kg		Adopted	2010
04.1.2.5	Jams, jellies, marmelades	200 mg/kg		Adopted	2010
04.1.2.6	Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5	500 mg/kg		Adopted	1999
04.1.2.7	Candied fruit	200 mg/kg		Adopted	2010
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	7500 mg/kg	182	Adopted	2008
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	200 mg/kg		Adopted	2010
04.1.2.11	Fruit fillings for pastries	7500 mg/kg		Adopted	1999
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	50000 mg/kg	76 & 161	Adopted	2010
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	500 mg/kg		Adopted	1999
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	50000 mg/kg	161	Adopted	2010
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g., peanut butter)	50000 mg/kg		Adopted	2010
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	50000 mg/kg	161	Adopted	2010
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	50000 mg/kg	161	Adopted	2010
04.2.2.8	Cooked or fried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	50000 mg/kg	161	Adopted	2010
05.1.2	Cocoa mixes (syrups)	50000 mg/kg		Adopted	2010
05.1.3	Cocoa-based spreads, including fillings	50000 mg/kg		Adopted	2012
05.1.4	Cocoa and chocolate products	50000 mg/kg	183	Adopted	2010
05.1.5	Imitation chocolate, chocolate substitute products	50000 mg/kg		Adopted	2009
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	50000 mg/kg		Adopted	2012
05.3	Chewing gum	20000 mg/kg		Adopted	1999
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	50000 mg/kg		Adopted	2012
06.3	Breakfast cereals, including rolled oats	50000 mg/kg	189	Adopted	2009
06.4.3	Pre-cooked pastas and noodles and like products	50000 mg/kg	153 & 173	Adopted	2010

CARMEL III - AMMONIA CARMEL

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	50000 mg/kg		Adopted	2009
06.6	Batters (e.g., for breading or batters for fish or poultry)	50000 mg/kg		Adopted	2009
06.7	Pre-cooked or processed rice products, including rice cakes (Oriental type only)	50000 mg/kg		Adopted	2009
06.8.1	Soybean-based beverages	1500 mg/kg		Adopted	2010
06.8.8	Other soybean protein products	20000 mg/kg		Adopted	2010
07.1.2	Crackers, excluding sweet crackers	50000 mg/kg	161	Adopted	2009
07.1.3	Other ordinary bakery products (e.g., bagels, pita, English muffins)	50000 mg/kg	161	Adopted	2009
07.1.4	Bread-type products, including bread stuffing and bread crumbs	50000 mg/kg	161	Adopted	2009
07.1.5	Steamed breads and buns	50000 mg/kg	161	Adopted	2009
07.1.6	Mixes for bread and ordinary bakery wares	50000 mg/kg	161	Adopted	2010
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	50000 mg/kg	161	Adopted	2009
08.0	Meat and meat products, including poultry and game	GMP	3, 4 & 16	Adopted	2009
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	30000 mg/kg	4 & 16	Adopted	2010
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	30000 mg/kg		Adopted	2009
09.3	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms	30000 mg/kg	95	Adopted	2010
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	50	Adopted	1999
10.1	Fresh eggs	20000 mg/kg	4	Adopted	2010
10.3	Preserved eggs, including alkaline, salted, and canned eggs	20000 mg/kg	4	Adopted	2010
10.4	Egg-based desserts (e.g., custard)	20000 mg/kg		Adopted	2010
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	50000 mg/kg	100	Adopted	2010
12.2.2	Seasonings and condiments	50000 mg/kg		Adopted	2010
12.3	Vinegars	1000 mg/kg	78	Adopted	2010
12.4	Mustards	50000 mg/kg		Adopted	2010
12.5	Soups and broths	25000 mg/kg		Adopted	2010
12.6	Sauces and like products	50000 mg/kg		Adopted	2010
12.7	Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	50000 mg/kg	89	Adopted	2012
12.9.2.1	Fermented soybean sauce	20000 mg/kg	207	Adopted	2011
12.9.2.2	Non-fermented soybean sauce	1500 mg/kg		Adopted	2011
12.9.2.3	Other soybean sauces	20000 mg/kg		Adopted	2011
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	20000 mg/kg		Adopted	2010
13.4	Dietetic formulae for slimming purposes and weight reduction	20000 mg/kg		Adopted	2010

CARAMEL III - AMMONIA CARAMEL

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	20000 mg/kg		Adopted	2010
13.6	Food supplements	20000 mg/kg		Adopted	2010
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	5000 mg/kg	9	Adopted	2010
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	10000 mg/kg	160 & 7	Adopted	2010
14.2.1	Beer and malt beverages	50000 mg/kg		Adopted	2010
14.2.2	Cider and perry	1000 mg/kg		Adopted	2010
14.2.3.3	Fortified grape wine, grape liquor wine, and sweet grape wine	50000 mg/kg		Adopted	2010
14.2.4	Wines (other than grape)	1000 mg/kg		Adopted	2010
14.2.5	Mead	1000 mg/kg		Adopted	2010
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	50000 mg/kg		Adopted	2010
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	50000 mg/kg		Adopted	2010
15.0	Ready-to-eat savouries	10000 mg/kg		Adopted	2009

CARAMEL IV - SULFITE AMMONIA CARAMEL

INS 150d Caramel IV - sulfite ammonia Functional Class: Colour caramel

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	2000 mg/kg	52	Adopted	2011
01.2.1	Fermented milks (plain)	150 mg/kg	12	Adopted	1999
01.2.2	Renneted milk (plain)	GMP		Adopted	1999
01.3.2	Beverage whiteners	1000 mg/kg		Adopted	2009
01.4.4	Cream analogues	5000 mg/kg		Adopted	2009
01.5.2	Milk and cream powder analogues	5000 mg/kg		Adopted	2009
01.6.1	Unripened cheese	50000 mg/kg	201	Adopted	2011
01.6.2.1	Ripened cheese, includes rind	50000 mg/kg	201	Adopted	2011
01.6.2.2	Rind of ripened cheese	50000 mg/kg		Adopted	2011
01.6.4.2	Flavoured processed cheese, including containing fruit, vegetables, meat, etc.	50000 mg/kg	72	Adopted	2011
01.6.5	Cheese analogues	50000 mg/kg	201	Adopted	2011
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	2000 mg/kg		Adopted	1999
02.2.2	Fat spreads, dairy fat spreads and blended spreads	500 mg/kg	214	Adopted	2011
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	20000 mg/kg		Adopted	2009
03.0	Edible ices, including sherbet and sorbet	1000 mg/kg		Adopted	1999

CAMEL IV - SULFITE AMMONIA CAMEL

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.1.2.3	Fruit in vinegar, oil, or brine	7500 mg/kg		Adopted	2011
04.1.2.4	Canned or bottled (pasteurized) fruit	7500 mg/kg		Adopted	2011
04.1.2.5	Jams, jellies, marmelades	1500 mg/kg		Adopted	1999
04.1.2.6	Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5	500 mg/kg		Adopted	1999
04.1.2.7	Candied fruit	7500 mg/kg		Adopted	2011
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	7500 mg/kg	182	Adopted	2008
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	7500 mg/kg		Adopted	2011
04.1.2.11	Fruit fillings for pastries	7500 mg/kg		Adopted	1999
04.2.2	Processed vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	50000 mg/kg	92 & 161	Adopted	2009
05.1.2	Cocoa mixes (syrops)	50000 mg/kg		Adopted	2012
05.1.3	Cocoa-based spreads, including fillings	50000 mg/kg		Adopted	2012
05.1.4	Cocoa and chocolate products	50000 mg/kg	183	Adopted	2012
05.1.5	Imitation chocolate, chocolate substitute products	50000 mg/kg		Adopted	2012
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	50000 mg/kg		Adopted	2012
05.3	Chewing gum	20000 mg/kg		Adopted	1999
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	50000 mg/kg		Adopted	2012
06.3	Breakfast cereals, including rolled oats	2500 mg/kg		Adopted	1999
06.4.2	Dried pastas and noodles and like products	50000 mg/kg	211	Adopted	2011
06.4.3	Pre-cooked pastas and noodles and like products	50000 mg/kg	153	Adopted	2011
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	2500 mg/kg		Adopted	2011
06.6	Batters (e.g., for breading or batters for fish or poultry)	2500 mg/kg		Adopted	2011
06.7	Pre-cooked or processed rice products, including rice cakes (Oriental type only)	2500 mg/kg		Adopted	2011
06.8.8	Other soybean protein products	20000 mg/kg		Adopted	2010
07.1.2	Crackers, excluding sweet crackers	50000 mg/kg	161	Adopted	2010
07.1.3	Other ordinary bakery products (e.g., bagels, pita, English muffins)	50000 mg/kg	161	Adopted	2010
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	1200 mg/kg		Adopted	2011
08.0	Meat and meat products, including poultry and game	GMP	3, 4 & 16	Adopted	2009
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	30000 mg/kg	95	Adopted	2009
09.3	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms	30000 mg/kg	95	Adopted	2009
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	30000 mg/kg	95	Adopted	2009
10.1	Fresh eggs	20000 mg/kg	4	Adopted	2010

CARAMEL IV - SULFITE AMMONIA CARAMEL

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
10.2	Egg products	20000 mg/kg	161	Adopted	2009
10.3	Preserved eggs, including alkaline, salted, and canned eggs	20000 mg/kg		Adopted	2009
10.4	Egg-based desserts (e.g., custard)	20000 mg/kg		Adopted	2009
11.6	Table-top sweeteners, including those containing high-intensity sweeteners	1200 mg/kg	213	Adopted	2011
12.2	Herbs, spices, seasonings and condiments (e.g., seasoning for instant noodles)	10000 mg/kg		Adopted	2010
12.3	Vinegars	50000 mg/kg		Adopted	2011
12.4	Mustards	50000 mg/kg		Adopted	2011
12.5	Soups and broths	25000 mg/kg	212	Adopted	2011
12.6	Sauces and like products	30000 mg/kg		Adopted	2011
12.7	Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	50000 mg/kg		Adopted	2011
12.9.2.1	Fermented soybean sauce	60000 mg/kg		Adopted	2011
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	20000 mg/kg		Adopted	2009
13.4	Dietetic formulae for slimming purposes and weight reduction	20000 mg/kg		Adopted	2009
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	20000 mg/kg		Adopted	2009
13.6	Food supplements	20000 mg/kg		Adopted	2009
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	50000 mg/kg		Adopted	2009
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	10000 mg/kg	7 & 127	Adopted	2011
14.2.1	Beer and malt beverages	50000 mg/kg		Adopted	2011
14.2.2	Cider and perry	1000 mg/kg		Adopted	2009
14.2.3.3	Fortified grape wine, grape liquor wine, and sweet grape wine	50000 mg/kg		Adopted	2011
14.2.4	Wines (other than grape)	1000 mg/kg		Adopted	2009
14.2.5	Mead	1000 mg/kg		Adopted	2009
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	50000 mg/kg		Adopted	2011
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	50000 mg/kg		Adopted	2011
15.0	Ready-to-eat savouries	10000 mg/kg		Adopted	2009

CARBON DIOXIDE

INS 290

Carbon dioxide

Functional Class: Carbonating agent, Packaging gas, Preservative, Propellant

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1	Milk and buttermilk (plain)	GMP	59	7	

CARBON DIOXIDE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2	Fermented and renneted milk products (plain), excluding food category 01.1.2 (dairy-based drinks)	GMP	59	7	
01.4.1	Pasteurized cream (plain)	GMP	59	7	
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	59	7	
04.1.1	Fresh fruit	GMP	59	7	
04.2.1	Fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	59	7	
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	59	7	
06.4.1	Fresh pastas and noodles and like products	GMP	59	4	
08.1.2	Fresh meat, poultry, and game, comminuted	100 mg/kg	59	7	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	59	7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	59	7	
13.1.1	Infant formulae	GMP	59	4	
13.1.3	Formulae for special medical purposes for infants	GMP	59	4	
13.2	Complementary foods for infants and young children	GMP	59	4	
14.1.2.1	Fruit juice	GMP	69	Adopted	2005
14.1.2.3	Concentrates for fruit juice	GMP	69 & 127	Adopted	2005
14.1.3.1	Fruit nectar	GMP	69	Adopted	2005
14.1.3.3	Concentrates for fruit nectar	GMP	69 & 127	Adopted	2005
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	59	7	
14.2.3	Grape wines	GMP	60	7	

CARMINES

INS 120 Carmines Functional Class: Colour

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	150 mg/kg	52	Adopted	2008
01.6.2.1	Ripened cheese, includes rind	125 mg/kg		Adopted	2005
01.6.4.2	Flavoured processed cheese, including containing fruit, vegetables, meat, etc.	100 mg/kg		Adopted	2005
01.6.5	Cheese analogues	100 mg/kg	3 & 178	Adopted	2008
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	150 mg/kg		Adopted	2005
02.2.2	Fat spreads, dairy fat spreads and blended spreads	500 mg/kg	161 & 178	Adopted	2008

CARMINES

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	500 mg/kg	161 & 178	Adopted	2008
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	150 mg/kg		Adopted	2005
03.0	Edible ices, including sherbet and sorbet	150 mg/kg		Adopted	2005
04.1.1.2	Surface-treated fresh fruit	500 mg/kg	4 & 16	Adopted	2008
04.1.2.4	Canned or bottled (pasteurized) fruit	200 mg/kg		Adopted	2005
04.1.2.5	Jams, jellies, marmelades	200 mg/kg		Adopted	2005
04.1.2.6	Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5	500 mg/kg		Adopted	2005
04.1.2.7	Candied fruit	200 mg/kg		Adopted	2005
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	500 mg/kg	182	Adopted	2008
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	150 mg/kg		Adopted	2005
04.1.2.11	Fruit fillings for pastries	300 mg/kg		Adopted	2005
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	500 mg/kg	4 & 16	Adopted	2008
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	500 mg/kg	161 & 178	Adopted	2008
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g., peanut butter)	100 mg/kg		Adopted	2005
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	200 mg/kg	92	Adopted	2008
05.1.2	Cocoa mixes (syrups)	300 mg/kg		Adopted	2005
05.1.5	Imitation chocolate, chocolate substitute products	300 mg/kg		Adopted	2005
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	300 mg/kg		Adopted	2005
05.3	Chewing gum	500 mg/kg	178	Adopted	2008
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	500 mg/kg		Adopted	2005
06.3	Breakfast cereals, including rolled oats	200 mg/kg		Adopted	2005
06.4.3	Pre-cooked pastas and noodles and like products	100 mg/kg	153 & 178	Adopted	2008
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	150 mg/kg		Adopted	2005
06.6	Batters (e.g., for breading or batters for fish or poultry)	500 mg/kg		Adopted	2005
06.8.1	Soybean-based beverages	100 mg/kg	178	Adopted	2010
07.1.2	Crackers, excluding sweet crackers	200 mg/kg	178	Adopted	2008
07.1.4	Bread-type products, including bread stuffing and bread crumbs	500 mg/kg	178	Adopted	2008
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	200 mg/kg		Adopted	2005

CARMINES

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	500 mg/kg	4 & 16	Adopted	2008
08.1.2	Fresh meat, poultry, and game, comminuted	100 mg/kg	4, 16 & 117	Adopted	2008
08.2	Processed meat, poultry, and game products in whole pieces or cuts	500 mg/kg	16	Adopted	2005
08.3.1.1	Cured (including salted) non-heat treated processed comminuted meat, poultry, and game products	200 mg/kg	118	Adopted	2005
08.3.1.2	Cured (including salted) and dried non-heat treated processed comminuted meat, poultry, and game products	100 mg/kg		Adopted	2005
08.3.1.3	Fermented non-heat treated processed comminuted meat, poultry, and game products	100 mg/kg		Adopted	2005
08.3.2	Heat-treated processed comminuted meat, poultry, and game products	100 mg/kg		Adopted	2005
08.3.3	Frozen processed comminuted meat, poultry, and game products	500 mg/kg	16	Adopted	2005
08.4	Edible casings (e.g., sausage casings)	500 mg/kg	16	Adopted	2005
09.1.1	Fresh fish	300 mg/kg	4, 16 & 50	Adopted	2008
09.1.2	Fresh mollusks, crustaceans, and echinoderms	500 mg/kg	4 & 16	Adopted	2008
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	100 mg/kg	95 & 178	Adopted	2008
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	16, 95 & 178	Adopted	2008
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	16	Adopted	2005
09.2.4.1	Cooked fish and fish products	500 mg/kg		Adopted	2005
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	250 mg/kg		Adopted	2005
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	16, 95 & 178	Adopted	2008
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	300 mg/kg	22	Adopted	2005
09.3.1	Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly	500 mg/kg	16	Adopted	2005
09.3.2	Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine	500 mg/kg	16	Adopted	2005
09.3.3	Salmon substitutes, caviar, and other fish roe products	500 mg/kg		Adopted	2005
09.3.4	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3	100 mg/kg		Adopted	2005
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	16	Adopted	2005
10.1	Fresh eggs	GMP	4	Adopted	2005
10.4	Egg-based desserts (e.g., custard)	150 mg/kg		Adopted	2005
12.2.2	Seasonings and condiments	500 mg/kg		Adopted	2005
12.4	Mustards	300 mg/kg		Adopted	2005
12.5	Soups and broths	50 mg/kg		Adopted	2005
12.6	Sauces and like products	500 mg/kg		Adopted	2005
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	50 mg/kg		Adopted	2005

CARMINES

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
13.4	Dietetic formulae for slimming purposes and weight reduction	50 mg/kg		Adopted	2005
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	300 mg/kg		Adopted	2005
13.6	Food supplements	300 mg/kg		Adopted	2005
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	100 mg/kg	178	Adopted	2008
14.2.1	Beer and malt beverages	100 mg/kg		Adopted	2005
14.2.2	Cider and perry	200 mg/kg		Adopted	2005
14.2.4	Wines (other than grape)	200 mg/kg		Adopted	2005
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	200 mg/kg		Adopted	2005
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	200 mg/kg	178	Adopted	2008
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	200 mg/kg		Adopted	2005
15.2	Processed nuts, including coated nuts and nut mixtures (with e.g., dried fruit)	100 mg/kg		Adopted	2005
15.3	Snacks - fish based	200 mg/kg	178	Adopted	2009

CARNAUBA WAX

INS 903

Carnauba wax

Functional Class: Acidity regulator, Anticaking agent, Bulking agent, Carrier, Glazing agent

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.1.1.2	Surface-treated fresh fruit	400 mg/kg		Adopted	2004
04.1.2	Processed fruit	400 mg/kg		Adopted	2004
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	400 mg/kg	79	Adopted	2004
05.1.4	Cocoa and chocolate products	5000 mg/kg	3	Adopted	2006
05.1.5	Imitation chocolate, chocolate substitute products	5000 mg/kg	3	Adopted	2006
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	5000 mg/kg	3	Adopted	2006
05.3	Chewing gum	1200 mg/kg	3	Adopted	2003
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	4000 mg/kg		Adopted	2001
07.0	Bakery wares	GMP	3	Adopted	2001
13.6	Food supplements	5000 mg/kg	3	Adopted	2006
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	200 mg/kg	131	Adopted	2003
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	200 mg/kg	108	Adopted	2006
15.0	Ready-to-eat savouries	200 mg/kg	3	Adopted	2006

CAROB BEAN GUM

CAROB BEAN GUM

INS 410

Carob bean gum

Functional Class: Emulsifier, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1.1	Milk (plain)	GMP		7	
01.1.1.2	Buttermilk (plain)	5000 mg/kg		7	
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235	Adopted	2013
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.2.2	Renneted milk (plain)	GMP		Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
04.1.1.2	Surface-treated fresh fruit	GMP		7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
06.1	Whole, broken, or flaked grain, including rice	GMP		7	
06.4.1	Fresh pastas and noodles and like products	GMP		4	
06.4.2	Dried pastas and noodles and like products	GMP		7	
08.1.2	Fresh meat, poultry, and game, comminuted	GMP		7	
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
10.2.1	Liquid egg products	GMP		7	
10.2.2	Frozen egg products	GMP		7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	5000 mg/kg		7	
12.2.1	Herbs and spices	GMP	51	7	
13.1.1	Infant formulae	1000 mg/kg	72	7	
13.1.2	Follow-up formulae	1000 mg/kg	72	7	
13.1.3	Formulae for special medical purposes for infants	1000 mg/kg	72	7	
13.2	Complementary foods for infants and young children	20000 mg/kg		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		7	
14.2.3	Grape wines	GMP		7	

CAROTENES, BETA-, VEGETABLE

INS 160a(ii)

beta-Carotenes, vegetable

Functional Class: Colour

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, egnog, drinking yoghurt, whey-based drinks)	1000 mg/kg	52	Adopted	2008

CAROTENES, BETA-, VEGETABLE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.3.2	Beverage whiteners	1000 mg/kg		Adopted	2005
01.4.4	Cream analogues	20 mg/kg		Adopted	2011
01.5.2	Milk and cream powder analogues	1000 mg/kg		Adopted	2005
01.6.1	Unripened cheese	600 mg/kg		Adopted	2005
01.6.2.1	Ripened cheese, includes rind	600 mg/kg		Adopted	2005
01.6.2.2	Rind of ripened cheese	1000 mg/kg		Adopted	2005
01.6.2.3	Cheese powder (for reconstitution; e.g., for cheese sauces)	1000 mg/kg		Adopted	2005
01.6.4	Processed cheese	1000 mg/kg		Adopted	2005
01.6.5	Cheese analogues	1000 mg/kg	3	Adopted	2005
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	1000 mg/kg		Adopted	2005
02.1.2	Vegetable oils and fats	1000 mg/kg		Adopted	2006
02.1.3	Lard, tallow, fish oil, and other animal fats	1000 mg/kg		Adopted	2006
02.2.1	Butter	600 mg/kg		Adopted	2008
02.2.2	Fat spreads, dairy fat spreads and blended spreads	1000 mg/kg		Adopted	2005
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	1000 mg/kg		Adopted	2005
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	1000 mg/kg		Adopted	2005
03.0	Edible ices, including sherbet and sorbet	1000 mg/kg		Adopted	2005
04.1.2.3	Fruit in vinegar, oil, or brine	1000 mg/kg		Adopted	2005
04.1.2.4	Canned or bottled (pasteurized) fruit	1000 mg/kg		Adopted	2005
04.1.2.5	Jams, jellies, marmelades	1000 mg/kg		Adopted	2005
04.1.2.6	Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5	500 mg/kg		Adopted	2005
04.1.2.7	Candied fruit	1000 mg/kg		Adopted	2005
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	100 mg/kg	182	Adopted	2011
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	1000 mg/kg		Adopted	2005
04.1.2.10	Fermented fruit products	200 mg/kg		Adopted	2005
04.1.2.11	Fruit fillings for pastries	100 mg/kg		Adopted	2009
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	200 mg/kg		Adopted	2011
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	1320 mg/kg		Adopted	2011
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	200 mg/kg		Adopted	2011
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g., peanut butter)	1000 mg/kg		Adopted	2005

CAROTENES, BETA-, VEGETABLE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	1000 mg/kg	92	Adopted	2008
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	1000 mg/kg		Adopted	2005
05.1.3	Cocoa-based spreads, including fillings	100 mg/kg		Adopted	2012
05.1.4	Cocoa and chocolate products	100 mg/kg	183	Adopted	2012
05.1.5	Imitation chocolate, chocolate substitute products	100 mg/kg		Adopted	2010
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	500 mg/kg		Adopted	2005
05.3	Chewing gum	500 mg/kg		Adopted	2005
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	20000 mg/kg		Adopted	2005
06.3	Breakfast cereals, including rolled oats	400 mg/kg		Adopted	2005
06.4.2	Dried pastas and noodles and like products	1000 mg/kg	211	Adopted	2011
06.4.3	Pre-cooked pastas and noodles and like products	1000 mg/kg	153	Adopted	2010
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	1000 mg/kg		Adopted	2005
06.6	Batters (e.g., for breading or batters for fish or poultry)	1000 mg/kg		Adopted	2005
07.1.2	Crackers, excluding sweet crackers	1000 mg/kg		Adopted	2005
07.1.4	Bread-type products, including bread stuffing and bread crumbs	1000 mg/kg		Adopted	2005
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	1000 mg/kg		Adopted	2005
08.1.2	Fresh meat, poultry, and game, comminuted	20 mg/kg	4 & 16	Adopted	2011
08.2	Processed meat, poultry, and game products in whole pieces or cuts	5000 mg/kg	16	Adopted	2005
08.3.1	Non-heat treated processed comminuted meat, poultry, and game products	20 mg/kg	118	Adopted	2005
08.3.2	Heat-treated processed comminuted meat, poultry, and game products	20 mg/kg		Adopted	2005
08.3.3	Frozen processed comminuted meat, poultry, and game products	5000 mg/kg	16	Adopted	2005
08.4	Edible casings (e.g., sausage casings)	5000 mg/kg		Adopted	2005
09.1.1	Fresh fish	100 mg/kg	4, 16 & 50	Adopted	2010
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	1000 mg/kg	16	Adopted	2005
09.2.4.1	Cooked fish and fish products	1000 mg/kg	95	Adopted	2009
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	1000 mg/kg		Adopted	2005
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	1000 mg/kg	16	Adopted	2005
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	1000 mg/kg		Adopted	2005

CAROTENES, BETA-, VEGETABLE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
09.3.1	Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly	1000 mg/kg	16	Adopted	2005
09.3.2	Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine	1000 mg/kg	16	Adopted	2005
09.3.3	Salmon substitutes, caviar, and other fish roe products	1000 mg/kg		Adopted	2005
09.3.4	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3	1000 mg/kg	16	Adopted	2005
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg		Adopted	2005
10.1	Fresh eggs	1000 mg/kg	4	Adopted	2005
10.2	Egg products	1000 mg/kg		Adopted	2005
10.4	Egg-based desserts (e.g., custard)	150 mg/kg		Adopted	2005
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	50 mg/kg		Adopted	2005
12.2.2	Seasonings and condiments	500 mg/kg		Adopted	2011
12.4	Mustards	1000 mg/kg		Adopted	2005
12.5	Soups and broths	1000 mg/kg		Adopted	2005
12.6.1	Emulsified sauces and dips (e.g., mayonnaise, salad dressing, onion dip)	2000 mg/kg		Adopted	2005
12.6.2	Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy)	2000 mg/kg		Adopted	2005
12.6.3	Mixes for sauces and gravies	2000 mg/kg		Adopted	2005
12.7	Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	1000 mg/kg		Adopted	2005
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	600 mg/kg		Adopted	2005
13.4	Dietetic formulae for slimming purposes and weight reduction	600 mg/kg		Adopted	2005
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	600 mg/kg		Adopted	2005
13.6	Food supplements	600 mg/kg		Adopted	2005
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	2000 mg/kg		Adopted	2005
14.2.1	Beer and malt beverages	600 mg/kg		Adopted	2005
14.2.2	Cider and perry	600 mg/kg		Adopted	2005
14.2.4	Wines (other than grape)	600 mg/kg		Adopted	2005
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	600 mg/kg		Adopted	2005
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	600 mg/kg		Adopted	2005
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	100 mg/kg		Adopted	2009
15.2	Processed nuts, including coated nuts and nut mixtures (with e.g., dried fruit)	20000 mg/kg	3	Adopted	2011
15.3	Snacks - fish based	100 mg/kg		Adopted	2010

CAROTENOIDS

CAROTENOIDS

INS 160a(i)	beta-Carotenes, synthetic	Functional Class: Colour
INS 160a(iii)	beta-Carotenes, Blakeslea trispora	Functional Class: Colour
INS 160e	Carotenal, beta-apo-8'-	Functional Class: Colour
INS 160f	Carotenoic acid, ethyl ester, beta-apo-8'-	Functional Class: Colour

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	150 mg/kg	52	Adopted	2009
01.3.2	Beverage whiteners	100 mg/kg		Adopted	2011
01.4.4	Cream analogues	20 mg/kg		Adopted	2011
01.5.2	Milk and cream powder analogues	100 mg/kg	209	Adopted	2011
01.6.1	Unripened cheese	100 mg/kg		Adopted	2011
01.6.2.1	Ripened cheese, includes rind	100 mg/kg		Adopted	2009
01.6.2.2	Rind of ripened cheese	500 mg/kg		Adopted	2009
01.6.2.3	Cheese powder (for reconstitution; e.g., for cheese sauces)	100 mg/kg		Adopted	2009
01.6.4	Processed cheese	100 mg/kg		Adopted	2009
01.6.5	Cheese analogues	200 mg/kg		Adopted	2009
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	100 mg/kg		Adopted	2009
02.1.2	Vegetable oils and fats	25 mg/kg	232	Adopted	2012
02.1.3	Lard, tallow, fish oil, and other animal fats	25 mg/kg		Adopted	2011
02.2.1	Butter	25 mg/kg	146	Adopted	2008
02.2.2	Fat spreads, dairy fat spreads and blended spreads	35 mg/kg		Adopted	2010
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	200 mg/kg		Adopted	2009
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	150 mg/kg		Adopted	2009
03.0	Edible ices, including sherbet and sorbet	200 mg/kg		Adopted	2009
04.1.2.3	Fruit in vinegar, oil, or brine	1000 mg/kg		Adopted	2009
04.1.2.4	Canned or bottled (pasteurized) fruit	200 mg/kg	161	Adopted	2010
04.1.2.5	Jams, jellies, marmelades	200 mg/kg		Adopted	2009
04.1.2.6	Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5	500 mg/kg		Adopted	2009
04.1.2.7	Candied fruit	200 mg/kg		Adopted	2009
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	100 mg/kg	161 & 182	Adopted	2009
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	150 mg/kg		Adopted	2009
04.1.2.10	Fermented fruit products	500 mg/kg		Adopted	2009

CAROTENOIDS

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.1.2.11	Fruit fillings for pastries	100 mg/kg		Adopted	2009
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	500 mg/kg	4, 16 & 161	Adopted	2010
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	1000 mg/kg	161	Adopted	2009
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	50 mg/kg	161	Adopted	2010
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	50 mg/kg	161	Adopted	2010
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g., peanut butter)	50 mg/kg	161	Adopted	2010
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	50 mg/kg	92 & 161	Adopted	2010
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	50 mg/kg		Adopted	2009
05.1.3	Cocoa-based spreads, including fillings	100 mg/kg	161	Adopted	2010
05.1.4	Cocoa and chocolate products	100 mg/kg	183	Adopted	2010
05.1.5	Imitation chocolate, chocolate substitute products	100 mg/kg		Adopted	2009
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	100 mg/kg		Adopted	2009
05.3	Chewing gum	100 mg/kg		Adopted	2009
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	100 mg/kg		Adopted	2009
06.3	Breakfast cereals, including rolled oats	200 mg/kg		Adopted	2009
06.4.3	Pre-cooked pastas and noodles and like products	1200 mg/kg	153	Adopted	2009
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	150 mg/kg		Adopted	2009
06.6	Batters (e.g., for breading or batters for fish or poultry)	500 mg/kg		Adopted	2009
07.1.2	Crackers, excluding sweet crackers	1000 mg/kg		Adopted	2009
07.1.3	Other ordinary bakery products (e.g., bagels, pita, English muffins)	100 mg/kg		Adopted	2011
07.1.4	Bread-type products, including bread stuffing and bread crumbs	200 mg/kg	116	Adopted	2011
07.1.5	Steamed breads and buns	100 mg/kg	216	Adopted	2011
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	100 mg/kg		Adopted	2009
08.1.2	Fresh meat, poultry, and game, comminuted	100 mg/kg	4 & 16	Adopted	2011
08.3.1.1	Cured (including salted) non-heat treated processed comminuted meat, poultry, and game products	100 mg/kg	16	Adopted	2010

CAROTENOIDS

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
08.3.1.2	Cured (including salted) and dried non-heat treated processed comminuted meat, poultry, and game products	20 mg/kg	16	Adopted	2010
08.3.1.3	Fermented non-heat treated processed comminuted meat, poultry, and game products	20 mg/kg	16	Adopted	2010
08.3.2	Heat-treated processed comminuted meat, poultry, and game products	20 mg/kg	16	Adopted	2010
08.4	Edible casings (e.g., sausage casings)	100 mg/kg		Adopted	2011
09.1.1	Fresh fish	300 mg/kg	4	Adopted	2011
09.1.2	Fresh mollusks, crustaceans, and echinoderms	100 mg/kg	4 & 16	Adopted	2011
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	100 mg/kg	95	Adopted	2011
09.3	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms	100 mg/kg	95	Adopted	2011
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	100 mg/kg	95	Adopted	2009
10.1	Fresh eggs	1000 mg/kg	4	Adopted	2011
10.4	Egg-based desserts (e.g., custard)	150 mg/kg		Adopted	2009
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	50 mg/kg	217	Adopted	2011
12.2.2	Seasonings and condiments	500 mg/kg		Adopted	2009
12.4	Mustards	300 mg/kg		Adopted	2009
12.5	Soups and broths	300 mg/kg		Adopted	2009
12.6	Sauces and like products	500 mg/kg		Adopted	2009
12.7	Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	50 mg/kg		Adopted	2009
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	50 mg/kg		Adopted	2009
13.4	Dietetic formulae for slimming purposes and weight reduction	50 mg/kg		Adopted	2009
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	300 mg/kg		Adopted	2009
13.6	Food supplements	300 mg/kg		Adopted	2009
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	100 mg/kg		Adopted	2009
14.2.2	Cider and perry	200 mg/kg		Adopted	2009
14.2.4	Wines (other than grape)	200 mg/kg		Adopted	2009
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	200 mg/kg		Adopted	2009
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	200 mg/kg		Adopted	2009
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	100 mg/kg		Adopted	2010
15.2	Processed nuts, including coated nuts and nut mixtures (with e.g., dried fruit)	100 mg/kg		Adopted	2009

CARRAGEENAN

CARRAGEENAN

INS 407 Carrageenan

Functional Class: Bulking agent, Carrier, Emulsifier, Gelling agent, Glazing agent, Humectant, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1.1	Milk (plain)	10000 mg/kg		7	
01.1.1.2	Buttermilk (plain)	6000 mg/kg		7	
01.2	Fermented and renneted milk products (plain), excluding food category 01.1.2 (dairy-based drinks)	5000 mg/kg		7	
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
02.1.2	Vegetable oils and fats	GMP		7	
02.1.3	Lard, tallow, fish oil, and other animal fats	GMP		7	
04.1.1.2	Surface-treated fresh fruit	GMP		7	
04.1.1.3	Peeled or cut fresh fruit	GMP		7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
04.2.1.3	Peeled, cut or shredded fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP		Adopted	2013
06.4.1	Fresh pastas and noodles and like products	GMP		4	
06.4.2	Dried pastas and noodles and like products	8330 mg/kg	37	7	
08.1	Fresh meat, poultry, and game	GMP		7	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	5000 mg/kg	61	7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41 & 61	7	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
10.2.1	Liquid egg products	GMP		7	
10.2.2	Frozen egg products	GMP		7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	5000 mg/kg		7	

CARRAGEENAN

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
12.1.2	Salt Substitutes	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	
13.1.2	Follow-up formulae	300 mg/kg	72 & 151	7	
13.2	Complementary foods for infants and young children	GMP		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		7	

CASTOR OIL

INS 1503 Castor oil Functional Class: Anticaking agent, Carrier, Emulsifier, Glazing agent

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
05.1.4	Cocoa and chocolate products	350 mg/kg		Adopted	2007
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	500 mg/kg		Adopted	2007
05.3	Chewing gum	2100 mg/kg		Adopted	2007
13.6	Food supplements	1000 mg/kg		Adopted	2007

CHLORINE

INS 925 Chlorine Functional Class: Flour treatment agent

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
06.2.1	Flours	2500 mg/kg	87	Adopted	2001

CHLORINE DIOXIDE

INS 926 Chlorine dioxide Functional Class: Flour treatment agent

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
06.2.1	Flours	30 mg/kg	87	Adopted	2010

CHLOROPHYLLS

INS 140 Chlorophylls Functional Class: Colour

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.4.1	Pasteurized cream (plain)	GMP		7	
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		7	
02.1.2	Vegetable oils and fats	GMP		7	
02.1.3	Lard, tallow, fish oil, and other animal fats	GMP		7	

CHLOROPHYLLS

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.1.1.2	Surface-treated fresh fruit	GMP	4 & 16	7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	4 & 16	7	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP		4	
06.4.2	Dried pastas and noodles and like products	GMP		7	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP	4 & 16	7	
08.1.2	Fresh meat, poultry, and game, comminuted	1000 mg/kg	4, 16 & 94	7	
09.1.1	Fresh fish	GMP	4, 16 & 50	7	
09.1.2	Fresh mollusks, crustaceans, and echinoderms	GMP	4 & 16	7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	95	7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.4.1	Cooked fish and fish products	GMP		7	
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	GMP		7	
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	22	7	
10.1	Fresh eggs	GMP	4	7	
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	20 mg/kg	84	4	
13.6	Food supplements	25000 mg/kg		4	
14.2.3.2	Sparkling and semi-sparkling grape wines	GMP		7	
14.2.3.3	Fortified grape wine, grape liquor wine, and sweet grape wine	GMP		7	

CHLOROPHYLLS AND CHLOROPHYLLINS, COPPER COMPLEXES

INS 141(i) Chlorophylls, copper complexes Functional Class: Colour

INS 141(ii) Chlorophyllin copper complexes, potassium and sodium salts Functional Class: Colour

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	50 mg/kg	52 & 190	Adopted	2009
01.6.1	Unripened cheese	50 mg/kg	161	Adopted	2009
01.6.2.1	Ripened cheese, includes rind	15 mg/kg		Adopted	2009

CHLOROPHYLLS AND CHLOROPHYLLINS, COPPER COMPLEXES

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.6.2.2	Rind of ripened cheese	75 mg/kg		Adopted	2009
01.6.2.3	Cheese powder (for reconstitution; e.g., for cheese sauces)	50 mg/kg		Adopted	2009
01.6.4.2	Flavoured processed cheese, including containing fruit, vegetables, meat, etc.	50 mg/kg		Adopted	2009
01.6.5	Cheese analogues	50 mg/kg		Adopted	2009
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	500 mg/kg		Adopted	2009
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	500 mg/kg		Adopted	2009
03.0	Edible ices, including sherbet and sorbet	500 mg/kg		Adopted	2009
04.1.2.3	Fruit in vinegar, oil, or brine	100 mg/kg	62	Adopted	2005
04.1.2.4	Canned or bottled (pasteurized) fruit	100 mg/kg	62	Adopted	2005
04.1.2.5	Jams, jellies, marmelades	200 mg/kg	161	Adopted	2009
04.1.2.6	Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5	150 mg/kg		Adopted	2009
04.1.2.7	Candied fruit	250 mg/kg		Adopted	2009
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	100 mg/kg	62 & 182	Adopted	2008
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	150 mg/kg		Adopted	2009
04.1.2.10	Fermented fruit products	100 mg/kg	62	Adopted	2005
04.1.2.11	Fruit fillings for pastries	100 mg/kg	62	Adopted	2005
04.1.2.12	Cooked fruit	100 mg/kg	62	Adopted	2005
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g., peanut butter)	100 mg/kg	62	Adopted	2005
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	100 mg/kg	62 & 92	Adopted	2008
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	100 mg/kg	62	Adopted	2005
04.2.2.8	Cooked or fried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	100 mg/kg	62	Adopted	2005
05.1.2	Cocoa mixes (syrups)	6.4 mg/kg	62 & 161	Adopted	2009
05.1.3	Cocoa-based spreads, including fillings	6.4 mg/kg	62 & 161	Adopted	2009
05.1.4	Cocoa and chocolate products	700 mg/kg	183	Adopted	2009
05.1.5	Imitation chocolate, chocolate substitute products	700 mg/kg		Adopted	2009
05.2.1	Hard candy	700 mg/kg		Adopted	2009
05.2.2	Soft candy	100 mg/kg		Adopted	2009
05.2.3	Nougats and marzipans	100 mg/kg		Adopted	2009

CHLOROPHYLLS AND CHLOROPHYLLINS, COPPER COMPLEXES

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
05.3	Chewing gum	700 mg/kg		Adopted	2009
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	100 mg/kg		Adopted	2009
06.4.3	Pre-cooked pastas and noodles and like products	100 mg/kg	153	Adopted	2009
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	75 mg/kg		Adopted	2009
07.1.4	Bread-type products, including bread stuffing and bread crumbs	6.4 mg/kg	62 & 161	Adopted	2009
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	75 mg/kg		Adopted	2009
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	40 mg/kg	95	Adopted	2009
09.2.4.1	Cooked fish and fish products	30 mg/kg	62 & 95	Adopted	2009
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	40 mg/kg	95	Adopted	2009
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	200 mg/kg		Adopted	2009
09.3.1	Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly	40 mg/kg	16	Adopted	2009
09.3.2	Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine	40 mg/kg	16	Adopted	2009
09.3.3	Salmon substitutes, caviar, and other fish roe products	200 mg/kg		Adopted	2009
09.3.4	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3	75 mg/kg	95	Adopted	2009
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	95	Adopted	2009
10.4	Egg-based desserts (e.g., custard)	300 mg/kg	2	Adopted	2009
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	64 mg/kg	62	Adopted	2005
12.2.2	Seasonings and condiments	500 mg/kg		Adopted	2009
12.4	Mustards	500 mg/kg		Adopted	2009
12.5	Soups and broths	400 mg/kg	127	Adopted	2009
12.6	Sauces and like products	100 mg/kg		Adopted	2009
13.6	Food supplements	500 mg/kg	3	Adopted	2009
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	300 mg/kg		Adopted	2009
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	350 mg/kg		Adopted	2009
15.2	Processed nuts, including coated nuts and nut mixtures (with e.g., dried fruit)	100 mg/kg		Adopted	2009
15.3	Snacks - fish based	350 mg/kg		Adopted	2009

CITRIC ACID

INS 330 Citric acid

Functional Class: Acidity regulator, Antioxidant, Colour retention agent, Sequestrant

CITRIC ACID

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP		Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP		Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
01.6.6	Whey protein cheese	GMP		Adopted	2006
02.1.1	Butter oil, anhydrous milkfat, ghee	GMP	171	Adopted	2006
02.1.2	Vegetable oils and fats	100 mg/kg	15	7	
02.1.3	Lard, tallow, fish oil, and other animal fats	100 mg/kg	15	7	
04.2.1.1	Untreated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes [(including soybeans)], and aloe vera), seaweeds, and nuts and seeds	GMP	262 & 264	Adopted	2013
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	242, 262, 264 & 265	Adopted	2013
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP		Adopted	2013
06.4.1	Fresh pastas and noodles and like products	GMP		Adopted	2013
06.4.2	Dried pastas and noodles and like products	GMP	256	Adopted	2013
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	2000 mg/kg		7	
08.1.2	Fresh meat, poultry, and game, comminuted	100 mg/kg	15	7	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	61 & 257	Adopted	2013
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	61	Adopted	2013
10.2.1	Liquid egg products	GMP		Adopted	2013
10.2.2	Frozen egg products	GMP		Adopted	2013
12.1.2	Salt Substitutes	GMP		Adopted	2013
12.2.1	Herbs and spices	GMP	51	7	
13.1.1	Infant formulae	GMP	72	7	
13.1.2	Follow-up formulae	GMP	72	Adopted	2013
13.1.3	Formulae for special medical purposes for infants	GMP	72	4	
13.2	Complementary foods for infants and young children	5000 mg/kg	238	Adopted	2013
14.1.2.1	Fruit juice	3000 mg/kg	122	Adopted	2005
14.1.2.2	Vegetable juice	GMP		Adopted	2013
14.1.2.3	Concentrates for fruit juice	3000 mg/kg	122 & 127	Adopted	2005
14.1.2.4	Concentrates for vegetable juice	GMP		Adopted	2013

CITRIC ACID

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
14.1.3.1	Fruit nectar	5000 mg/kg		Adopted	2005
14.1.3.2	Vegetable nectar	GMP		Adopted	2013
14.1.3.3	Concentrates for fruit nectar	5000 mg/kg	127	Adopted	2005
14.1.3.4	Concentrates for vegetable nectar	GMP		Adopted	2013
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160	Adopted	2013
14.2.3	Grape wines	4000 mg/kg		4	

CITRIC AND FATTY ACID ESTERS OF GLYCEROL

INS 472c Citric and fatty acid esters of glycerol Functional Class: Antioxidant, Emulsifier, Flour treatment agent, Sequestrant, Stabilizer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1.2	Buttermilk (plain)	GMP		7	
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.2.2	Renneted milk (plain)	GMP		Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
02.1.2	Vegetable oils and fats	GMP		7	
02.1.3	Lard, tallow, fish oil, and other animal fats	GMP		7	
04.1.1.2	Surface-treated fresh fruit	GMP	16	7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	16	7	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP		Adopted	2013
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP	16	7	
08.1.2	Fresh meat, poultry, and game, comminuted	GMP		7	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	GMP		7	

CITRIC AND FATTY ACID ESTERS OF GLYCEROL

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
12.1.2	Salt Substitutes	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	
13.2	Complementary foods for infants and young children	5000 mg/kg		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		7	

CURCUMIN

INS 100(i) Curcumin Functional Class: Colour

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	150 mg/kg	52	7	
01.6.1	Unripened cheese	500 mg/kg	3	4	
01.6.2	Ripened cheese	500 mg/kg		4	
01.6.4	Processed cheese	200 mg/kg		7	
01.6.5	Cheese analogues	500 mg/kg	3	4	
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	150 mg/kg		7	
02.1.2	Vegetable oils and fats	5 mg/kg		7	
02.1.3	Lard, tallow, fish oil, and other animal fats	5 mg/kg		7	
02.2.2	Fat spreads, dairy fat spreads and blended spreads	10 mg/kg		4	
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	500 mg/kg		7	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	150 mg/kg		7	
03.0	Edible ices, including sherbet and sorbet	150 mg/kg		7	
04.1.1.2	Surface-treated fresh fruit	500 mg/kg	4 & 16	7	
04.1.2.4	Canned or bottled (pasteurized) fruit	200 mg/kg		7	
04.1.2.5	Jams, jellies, marmelades	500 mg/kg		7	
04.1.2.6	Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5	500 mg/kg		7	
04.1.2.7	Candied fruit	200 mg/kg		7	
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	500 mg/kg	182	7	
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	150 mg/kg		7	
04.1.2.11	Fruit fillings for pastries	150 mg/kg		7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	500 mg/kg	4 & 16	7	
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	500 mg/kg		4	

CURCUMIN

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	500 mg/kg		7	
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	200 mg/kg		7	
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g., peanut butter)	500 mg/kg		4	
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	200 mg/kg	92	7	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	500 mg/kg		4	
05.1	Cocoa products and chocolate products including imitations and chocolate substitutes	300 mg/kg	183	7	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	300 mg/kg		7	
05.3	Chewing gum	700 mg/kg		7	
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	500 mg/kg		7	
06.3	Breakfast cereals, including rolled oats	500 mg/kg		7	
06.4.2	Dried pastas and noodles and like products	500 mg/kg		7	
06.4.3	Pre-cooked pastas and noodles and like products	500 mg/kg	153	7	
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	150 mg/kg		7	
06.6	Batters (e.g., for breading or batters for fish or poultry)	20 mg/kg		7	
07.1.1	Breads and rolls	500 mg/kg		4	
07.1.2	Crackers, excluding sweet crackers	500 mg/kg		4	
07.1.3	Other ordinary bakery products (e.g., bagels, pita, English muffins)	500 mg/kg		4	
07.1.4	Bread-type products, including bread stuffing and bread crumbs	20 mg/kg	116	7	
07.1.5	Steamed breads and buns	500 mg/kg		4	
07.1.6	Mixes for bread and ordinary bakery wares	200 mg/kg		4	
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	200 mg/kg		7	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	500 mg/kg	4 & 16	7	
08.1.2	Fresh meat, poultry, and game, comminuted	20 mg/kg	4, 16 & 117	7	
08.2	Processed meat, poultry, and game products in whole pieces or cuts	500 mg/kg	16	7	
08.3.1	Non-heat treated processed comminuted meat, poultry, and game products	20 mg/kg	118	7	
08.3.2	Heat-treated processed comminuted meat, poultry, and game products	20 mg/kg		7	

CURCUMIN

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
08.3.3	Frozen processed comminuted meat, poultry, and game products	500 mg/kg	16	7	
08.4	Edible casings (e.g., sausage casings)	500 mg/kg	16	7	
09.1.1	Fresh fish	300 mg/kg	4, 16 & 50	7	
09.1.2	Fresh mollusks, crustaceans, and echinoderms	500 mg/kg	4 & 16	7	
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	50 mg/kg		4	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	95	7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	16	7	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	16	7	
09.2.4.1	Cooked fish and fish products	500 mg/kg		7	
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	250 mg/kg		7	
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	16	7	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	22	7	
09.3	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms	50 mg/kg		7	
09.3.1	Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly	500 mg/kg	16	7	
09.3.2	Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine	500 mg/kg	16	7	
09.3.3	Salmon substitutes, caviar, and other fish roe products	500 mg/kg		7	
09.3.4	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3	500 mg/kg		7	
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg		7	
10.1	Fresh eggs	500 mg/kg	4	4	
10.4	Egg-based desserts (e.g., custard)	150 mg/kg		7	
12.2.2	Seasonings and condiments	500 mg/kg		7	
12.4	Mustards	300 mg/kg		7	
12.5	Soups and broths	300 mg/kg		7	
12.6	Sauces and like products	500 mg/kg		7	
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	50 mg/kg		7	
13.4	Dietetic formulae for slimming purposes and weight reduction	50 mg/kg		7	
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	300 mg/kg		7	
13.6	Food supplements	300 mg/kg		7	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	100 mg/kg		7	
14.2.1	Beer and malt beverages	200 mg/kg		4	

CURCUMIN

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
14.2.2	Cider and perry	200 mg/kg		7	
14.2.3.1	Still grape wine	200 mg/kg		4	
14.2.3.2	Sparkling and semi-sparkling grape wines	200 mg/kg		4	
14.2.3.3	Fortified grape wine, grape liquor wine, and sweet grape wine	200 mg/kg		7	
14.2.4	Wines (other than grape)	200 mg/kg		7	
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	200 mg/kg		7	
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	200 mg/kg		7	
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	200 mg/kg		7	
15.2	Processed nuts, including coated nuts and nut mixtures (with e.g., dried fruit)	100 mg/kg		7	

CURDLAN

INS 424 Curdlan Functional Class: Firming agent, Gelling agent, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
06.4.1	Fresh pastas and noodles and like products	GMP		4	

CYCLAMATES

INS 952(i) Cyclamic acid Functional Class: Sweetener

INS 952(ii) Calcium cyclamate Functional Class: Sweetener

INS 952(iv) Sodium cyclamate Functional Class: Sweetener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	250 mg/kg	17 & 161	Adopted	2007
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	250 mg/kg	17 & 161	Adopted	2007
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	250 mg/kg	17 & 161	Adopted	2007
03.0	Edible ices, including sherbet and sorbet	250 mg/kg	17 & 161	Adopted	2007
04.1.2.4	Canned or bottled (pasteurized) fruit	1000 mg/kg	17 & 161	Adopted	2007
04.1.2.5	Jams, jellies, marmelades	1000 mg/kg	17 & 161	Adopted	2007
04.1.2.6	Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5	2000 mg/kg	17 & 161	Adopted	2007
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	250 mg/kg	17 & 161	Adopted	2007
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	250 mg/kg	17 & 161	Adopted	2007

CYCLAMATES

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	250 mg/kg	17 & 161	Adopted	2008
05.1.2	Cocoa mixes (syrops)	250 mg/kg	17, 127 & 161	Adopted	2007
05.1.3	Cocoa-based spreads, including fillings	500 mg/kg	17 & 161	Adopted	2007
05.1.4	Cocoa and chocolate products	500 mg/kg	17 & 161	Adopted	2007
05.1.5	Imitation chocolate, chocolate substitute products	500 mg/kg	17 & 161	Adopted	2007
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	500 mg/kg	17, 156 & 161	Adopted	2007
05.3	Chewing gum	3000 mg/kg	17 & 161	Adopted	2007
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	500 mg/kg	17 & 161	Adopted	2007
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	250 mg/kg	17 & 161	Adopted	2007
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	1600 mg/kg	17 & 165	Adopted	2007
10.4	Egg-based desserts (e.g., custard)	250 mg/kg	17 & 161	Adopted	2007
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	500 mg/kg	17 & 159	Adopted	2007
11.6	Table-top sweeteners, including those containing high-intensity sweeteners	GMP	17	Adopted	2007
12.6.1	Emulsified sauces and dips (e.g., mayonnaise, salad dressing, onion dip)	500 mg/kg	17 & 161	Adopted	2008
12.7	Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	500 mg/kg	17 & 161	Adopted	2008
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	400 mg/kg	17	Adopted	2007
13.4	Dietetic formulae for slimming purposes and weight reduction	400 mg/kg	17	Adopted	2007
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	400 mg/kg	17	Adopted	2007
13.6	Food supplements	1250 mg/kg	17	Adopted	2007
14.1.3.1	Fruit nectar	400 mg/kg	17 & 122	Adopted	2005
14.1.3.2	Vegetable nectar	400 mg/kg	17 & 161	Adopted	2007
14.1.3.3	Concentrates for fruit nectar	400 mg/kg	17, 122 & 127	Adopted	2005
14.1.3.4	Concentrates for vegetable nectar	400 mg/kg	17, 127 & 161	Adopted	2007
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	350 mg/kg	17 & 127	Adopted	2010
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	250 mg/kg	17	Adopted	2007

CYCLODEXTRIN, BETA-

INS 459

Cyclodextrin, beta-

Functional Class: Carrier, Stabilizer, Thickener

CYCLODEXTRIN, BETA-

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
05.3	Chewing gum	20000 mg/kg		Adopted	2001
06.4.3	Pre-cooked pastas and noodles and like products	1000 mg/kg	153	Adopted	2012
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	500 mg/kg		Adopted	2001
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	500 mg/kg		Adopted	2004

DEXTRINS, ROASTED STARCH

INS 1400 Dextrins, roasted starch Functional Class: Carrier, Emulsifier, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235	Adopted	2013
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.2.2	Renneted milk (plain)	GMP		Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	236	Adopted	2013
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP		Adopted	2013
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	20000 mg/kg	3 & 53	7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41	7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	90	7	

DIACETYLTARTARIC AND FATTY ACID ESTERS OF GLYCEROL

INS 472e Diacetyltartaric and fatty acid esters of glycerol Functional Class: Emulsifier, Sequestrant, Stabilizer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	5000 mg/kg		Adopted	2005
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	5000 mg/kg		Adopted	2005
01.2.2	Renneted milk (plain)	5000 mg/kg		Adopted	2005
01.3.2	Beverage whiteners	5000 mg/kg		Adopted	2005
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	6000 mg/kg		Adopted	2007
01.4.3	Clotted cream (plain)	5000 mg/kg		Adopted	2006
01.4.4	Cream analogues	6000 mg/kg		Adopted	2007

DIACETYLTARTARIC AND FATTY ACID ESTERS OF GLYCEROL

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.5.1	Milk powder and cream powder (plain)	10000 mg/kg		Adopted	2006
01.5.2	Milk and cream powder analogues	10000 mg/kg		Adopted	2005
01.6.2.1	Ripened cheese, includes rind	10000 mg/kg		Adopted	2005
01.6.4	Processed cheese	10000 mg/kg		Adopted	2005
01.6.5	Cheese analogues	10000 mg/kg		Adopted	2005
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	10000 mg/kg		Adopted	2005
02.1.2	Vegetable oils and fats	10000 mg/kg		Adopted	2006
02.1.3	Lard, tallow, fish oil, and other animal fats	10000 mg/kg		Adopted	2006
02.2.2	Fat spreads, dairy fat spreads and blended spreads	10000 mg/kg		Adopted	2005
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	10000 mg/kg		Adopted	2005
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	5000 mg/kg		Adopted	2005
03.0	Edible ices, including sherbet and sorbet	1000 mg/kg		Adopted	2006
04.1.2.2	Dried fruit	10000 mg/kg		Adopted	2005
04.1.2.3	Fruit in vinegar, oil, or brine	1000 mg/kg		Adopted	2005
04.1.2.6	Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5	5000 mg/kg		Adopted	2005
04.1.2.7	Candied fruit	1000 mg/kg		Adopted	2005
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	2500 mg/kg		Adopted	2005
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	2500 mg/kg		Adopted	2005
04.1.2.10	Fermented fruit products	2500 mg/kg		Adopted	2005
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	10000 mg/kg		Adopted	2005
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	2500 mg/kg		Adopted	2005
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	2500 mg/kg		Adopted	2005
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	2500 mg/kg		Adopted	2005
04.2.2.8	Cooked or fried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	2500 mg/kg		Adopted	2005
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	10000 mg/kg		Adopted	2005
05.3	Chewing gum	50000 mg/kg		Adopted	2005

DIACETYLTARTARIC AND FATTY ACID ESTERS OF GLYCEROL

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	10000 mg/kg		Adopted	2005
06.2	Flours and starches (including soybean powder)	3000 mg/kg	186	Adopted	2008
06.4.2	Dried pastas and noodles and like products	5000 mg/kg		Adopted	2008
06.4.3	Pre-cooked pastas and noodles and like products	10000 mg/kg		Adopted	2005
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	5000 mg/kg		Adopted	2005
06.6	Batters (e.g., for breading or batters for fish or poultry)	5000 mg/kg		Adopted	2005
06.8.1	Soybean-based beverages	1000 mg/kg		3	
07.1	Bread and ordinary bakery wares	6000 mg/kg		Adopted	2006
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	20000 mg/kg		Adopted	2006
10.2.3	Dried and/or heat coagulated egg products	5000 mg/kg		Adopted	2005
10.4	Egg-based desserts (e.g., custard)	5000 mg/kg		Adopted	2005
12.1.2	Salt Substitutes	16000 mg/kg		Adopted	2006
12.4	Mustards	10000 mg/kg		Adopted	2005
12.5	Soups and broths	5000 mg/kg		Adopted	2005
12.6	Sauces and like products	10000 mg/kg		Adopted	2005
12.7	Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	5000 mg/kg		Adopted	2005
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	5000 mg/kg		Adopted	2005
13.4	Dietetic formulae for slimming purposes and weight reduction	5000 mg/kg		Adopted	2005
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	5000 mg/kg		Adopted	2005
13.6	Food supplements	5000 mg/kg		Adopted	2005
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	5000 mg/kg		Adopted	2005
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	500 mg/kg	142	Adopted	2006
14.2.2	Cider and perry	5000 mg/kg		Adopted	2005
14.2.4	Wines (other than grape)	5000 mg/kg		Adopted	2005
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	5000 mg/kg		Adopted	2005
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	10000 mg/kg		Adopted	2005
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	20000 mg/kg		Adopted	2005
15.2	Processed nuts, including coated nuts and nut mixtures (with e.g., dried fruit)	10000 mg/kg		Adopted	2005

DIMETHYL DICARBONATE

INS 242

Dimethyl dicarbonate

Functional Class: Preservative

DIMETHYL DICARBONATE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	250 mg/kg	18	Adopted	1999
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	250 mg/kg	18	Adopted	2004
14.2.2	Cider and perry	250 mg/kg	18	Adopted	2004
14.2.3	Grape wines	200 mg/kg	18	Adopted	2004
14.2.4	Wines (other than grape)	250 mg/kg	18	Adopted	2004
14.2.5	Mead	200 mg/kg	18	Adopted	2004

DIOCTYL SODIUM SULFOSUCCINATE

INS 480 Diocetyl sodium sulfosuccinate Functional Class: Emulsifier, Humectant

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	25 mg/kg	19	7	
01.3.1	Condensed milk (plain)	GMP		7	
01.6.1	Unripened cheese	5000 mg/kg	20	7	
01.6.4	Processed cheese	5000 mg/kg	20	7	
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	15 mg/kg		7	
05.1.1	Cocoa mixes (powders) and cocoa mass/cake	4000 mg/kg		7	
08.4	Edible casings (e.g., sausage casings)	200 mg/kg		7	
12.6.1	Emulsified sauces and dips (e.g., mayonnaise, salad dressing, onion dip)	5000 mg/kg	20	7	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	10 mg/kg		7	
14.2	Alcoholic beverages, including alcohol-free and low-alcoholic counterparts	10 mg/kg		7	

DIPHENYL

INS 230 Diphenyl Functional Class: Preservative

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.1.1.2	Surface-treated fresh fruit	70 mg/kg	49	7	

DIPOTASSIUM 5'-GUANYLATE

INS 628 Dipotassium 5'-guanylate Functional Class: Flavour enhancer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
12.1.2	Salt Substitutes	GMP		7	

DIPOTASSIUM 5'-GUANYLATE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
12.2.1	Herbs and spices	GMP	51	7	

DISODIUM 5'-GUANYLATE

INS 627 Disodium 5'-guanylate Functional Class: Flavour enhancer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP		4	
06.4.2	Dried pastas and noodles and like products	GMP		4	
08.1	Fresh meat, poultry, and game	GMP		7	
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
12.1.2	Salt Substitutes	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		4	

DISODIUM 5'-INOSINATE

INS 631 Disodium 5'-inosinate Functional Class: Flavour enhancer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP		4	
06.4.2	Dried pastas and noodles and like products	GMP		4	
08.1	Fresh meat, poultry, and game	GMP		7	
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
12.1.2	Salt Substitutes	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		4	

DISODIUM 5'-RIBONUCLEOTIDES

INS 635 Disodium 5'-ribonucleotides Functional Class: Flavour enhancer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
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DISODIUM 5'-RIBONUCLEOTIDES

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP		4	
06.4.2	Dried pastas and noodles and like products	GMP		4	
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
12.1.2	Salt Substitutes	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		4	

DISTARCH PHOSPHATE

INS 1412 Distarch phosphate Functional Class: Emulsifier, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235	Adopted	2013
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.2.2	Renneted milk (plain)	GMP		Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
06.4.1	Fresh pastas and noodles and like products	200 mg/kg		4	
06.4.2	Dried pastas and noodles and like products	200 mg/kg		4	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41	7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	10000 mg/kg		7	
13.1.1	Infant formulae	5000 mg/kg	72 & 150	7	
13.1.2	Follow-up formulae	5000 mg/kg	72 & 150	7	
13.1.3	Formulae for special medical purposes for infants	5000 mg/kg	72 & 150	4	
13.2	Complementary foods for infants and young children	60000 mg/kg		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	10000 mg/kg		7	

ERYTHORBIC ACID (ISOASCORBIC ACID)

INS 315 Erythorbic Acid (Isoascorbic acid) Functional Class: Antioxidant

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
02.1.2	Vegetable oils and fats	100 mg/kg		7	
02.1.3	Lard, tallow, fish oil, and other animal fats	100 mg/kg		7	

ERYTHORBIC ACID (ISOASCORBIC ACID)

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.1.1	Fresh fruit	GMP		7	
04.2.1.3	Peeled, cut or shredded fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	500 mg/kg		7	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	1500 mg/kg		7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	15	7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		7	
14.2.3	Grape wines	250 mg/kg		4	

ERYTHRITOL

INS 968

Erythritol

Functional Class: Flavour enhancer, Humectant, Sweetener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2	Fermented and renneted milk products (plain), excluding food category 01.1.2 (dairy-based drinks)	40000 mg/kg		4	
01.4.1	Pasteurized cream (plain)	600000 mg/kg		4	
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	600000 mg/kg		4	
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	200000 mg/kg		4	
12.1.2	Salt Substitutes	200000 mg/kg		4	
12.2.1	Herbs and spices	200000 mg/kg	51	4	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	40000 mg/kg		4	

ERYTHROSINE

INS 127

Erythrosine

Functional Class: Colour

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.1.2.4	Canned or bottled (pasteurized) fruit	200 mg/kg	54 & 161	6	
04.1.2.7	Candied fruit	200 mg/kg	54	Adopted	2005
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	30 mg/kg		Adopted	2011
05.3	Chewing gum	50 mg/kg		Adopted	2011

ERYTHROSINE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	100 mg/kg		Adopted	2011
08.2	Processed meat, poultry, and game products in whole pieces or cuts	30 mg/kg	4 & 16	Adopted	2011
08.3	Processed comminuted meat, poultry, and game products	30 mg/kg	4	Adopted	2012

ETHYL MALTOL

INS 637

Ethyl maltol

Functional Class: Flavour enhancer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	200 mg/kg		7	
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	200 mg/kg		7	
03.0	Edible ices, including sherbet and sorbet	200 mg/kg		7	
05.1.4	Cocoa and chocolate products	1000 mg/kg		7	
05.1.5	Imitation chocolate, chocolate substitute products	1000 mg/kg		7	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	200 mg/kg		7	
05.3	Chewing gum	1000 mg/kg		7	
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	200 mg/kg		7	
11.6	Table-top sweeteners, including those containing high-intensity sweeteners	GMP		4	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	200 mg/kg		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	200 mg/kg		7	
14.2.2	Cider and perry	100 mg/kg		7	
14.2.3	Grape wines	100 mg/kg	93	7	
14.2.4	Wines (other than grape)	100 mg/kg		7	

ETHYLENE DIAMINE TETRA ACETATES

INS 385

Calcium disodium ethylenediaminetetraacetate

Functional Class: Antioxidant, Colour retention agent, Preservative, Sequestrant

INS 386

Disodium ethylenediaminetetraacetate

Functional Class: Antioxidant, Colour retention agent, Preservative, Sequestrant, Stabilizer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
02.2.2	Fat spreads, dairy fat spreads and blended spreads	100 mg/kg	21	Adopted	2001
04.1.2.2	Dried fruit	265 mg/kg	21	Adopted	2001
04.1.2.3	Fruit in vinegar, oil, or brine	250 mg/kg	21	Adopted	2008
04.1.2.5	Jams, jellies, marmelades	130 mg/kg	21	Adopted	2001

ETHYLENE DIAMINE TETRA ACETATES

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.1.2.6	Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5	100 mg/kg	21	Adopted	2001
04.1.2.10	Fermented fruit products	250 mg/kg	21	Adopted	2008
04.1.2.11	Fruit fillings for pastries	650 mg/kg	21	Adopted	2001
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	100 mg/kg	21 & 110	Adopted	2006
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	800 mg/kg	21 & 64	Adopted	2001
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	250 mg/kg	21	Adopted	2001
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	365 mg/kg	21	Adopted	2001
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g., peanut butter)	250 mg/kg	21	Adopted	2001
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	80 mg/kg	21	Adopted	2001
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	250 mg/kg	21	Adopted	2001
04.2.2.8	Cooked or fried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	250 mg/kg	21	Adopted	2001
05.1.3	Cocoa-based spreads, including fillings	50 mg/kg	21	Adopted	2001
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	315 mg/kg	21	Adopted	2001
08.3.2	Heat-treated processed comminuted meat, poultry, and game products	35 mg/kg	21	Adopted	2001
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	75 mg/kg	21	Adopted	2001
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	75 mg/kg	21	Adopted	2001
09.2.4.1	Cooked fish and fish products	50 mg/kg	21	Adopted	2005
09.3.2	Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine	250 mg/kg	21	Adopted	2001
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	340 mg/kg	21	Adopted	2001
10.2.3	Dried and/or heat coagulated egg products	200 mg/kg	21 & 47	Adopted	2001
11.6	Table-top sweeteners, including those containing high-intensity sweeteners	1000 mg/kg	21 & 96	Adopted	2005
12.2	Herbs, spices, seasonings and condiments (e.g., seasoning for instant noodles)	70 mg/kg	21	Adopted	2001
12.4	Mustards	75 mg/kg	21	Adopted	2001

ETHYLENE DIAMINE TETRA ACETATES

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
12.6.1	Emulsified sauces and dips (e.g., mayonnaise, salad dressing, onion dip)	100 mg/kg	21	Adopted	2001
12.6.2	Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy)	75 mg/kg	21	Adopted	2001
12.7	Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	100 mg/kg	21	Adopted	2001
13.6	Food supplements	150 mg/kg	21	Adopted	2001
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	200 mg/kg	21	Adopted	2001
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	35 mg/kg	21	Adopted	2001
14.2.1	Beer and malt beverages	25 mg/kg	21	Adopted	2004
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	25 mg/kg	21	Adopted	2005
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	25 mg/kg	21	Adopted	2007

FAST GREEN FCF

INS 143

Fast green FCF

Functional Class: Colour

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	100 mg/kg	52	Adopted	2008
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	100 mg/kg	2	Adopted	1999
02.1.3	Lard, tallow, fish oil, and other animal fats	GMP		Adopted	1999
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	100 mg/kg		Adopted	2009
03.0	Edible ices, including sherbet and sorbet	100 mg/kg		Adopted	1999
04.1.2.4	Canned or bottled (pasteurized) fruit	200 mg/kg		Adopted	1999
04.1.2.5	Jams, jellies, marmelades	400 mg/kg		Adopted	1999
04.1.2.6	Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5	100 mg/kg	161	Adopted	2009
04.1.2.7	Candied fruit	100 mg/kg	161	Adopted	2009
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	100 mg/kg	161 & 182	Adopted	2009
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	100 mg/kg	161	Adopted	2009
04.1.2.11	Fruit fillings for pastries	100 mg/kg	161	Adopted	2009
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	300 mg/kg		Adopted	1999
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	200 mg/kg		Adopted	1999

FAST GREEN FCF

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	100 mg/kg	161	Adopted	2009
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	100 mg/kg		Adopted	2009
05.3	Chewing gum	300 mg/kg		Adopted	1999
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	100 mg/kg		Adopted	2009
06.4.3	Pre-cooked pastas and noodles and like products	290 mg/kg	194	Adopted	2010
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	100 mg/kg	161	Adopted	2009
07.0	Bakery wares	100 mg/kg	161	Adopted	2009
08.1	Fresh meat, poultry, and game	100 mg/kg	3, 4 & 16	Adopted	2009
08.2	Processed meat, poultry, and game products in whole pieces or cuts	100 mg/kg	3 & 4	Adopted	2009
08.4	Edible casings (e.g., sausage casings)	100 mg/kg	3 & 4	Adopted	2009
09.2.4.1	Cooked fish and fish products	100 mg/kg		Adopted	1999
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	100 mg/kg		Adopted	1999
09.3.3	Salmon substitutes, caviar, and other fish roe products	100 mg/kg		Adopted	1999
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	100 mg/kg	95	Adopted	2009
10.1	Fresh eggs	GMP	4	Adopted	1999
10.4	Egg-based desserts (e.g., custard)	100 mg/kg		Adopted	2009
12.2.2	Seasonings and condiments	100 mg/kg		Adopted	2009
12.6.1	Emulsified sauces and dips (e.g., mayonnaise, salad dressing, onion dip)	100 mg/kg		Adopted	2009
13.6	Food supplements	600 mg/kg		Adopted	2009
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	100 mg/kg		Adopted	1999
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	100 mg/kg		Adopted	1999
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	100 mg/kg		Adopted	1999

FERRIC AMMONIUM CITRATE

INS 381

Ferric ammonium citrate

Functional Class: Anticaking agent

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
14.1.4.3	Concentrates (liquid or solid) for water-based flavoured drinks	10 mg/kg	23	Adopted	1999

FERROCYANIDES

FERROCYANIDES

INS 535 Sodium ferrocyanide Functional Class: Anticaking agent

INS 536 Potassium ferrocyanide Functional Class: Anticaking agent

INS 538 Calcium ferrocyanide Functional Class: Anticaking agent

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
12.1.1	Salt	14 mg/kg	24 & 107	Adopted	2006
12.1.2	Salt Substitutes	20 mg/kg	24	Adopted	1999
12.2.2	Seasonings and condiments	20 mg/kg	24	Adopted	1999

FERROUS GLUCONATE

INS 579 Ferrous gluconate Functional Class: Colour retention agent

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	150 mg/kg	23 & 48	Adopted	1999

FERROUS LACTATE

INS 585 Ferrous lactate Functional Class: Colour retention agent

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	150 mg/kg	23 & 48	Adopted	1999

FORMIC ACID

INS 236 Formic acid Functional Class: Preservative

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
12.6	Sauces and like products	200 mg/kg	25	Adopted	2001
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	100 mg/kg	25	Adopted	2001

FUMARIC ACID

INS 297 Fumaric acid Functional Class: Acidity regulator

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP		Adopted	2013

FUMARIC ACID

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
06.4.1	Fresh pastas and noodles and like products	700 mg/kg		Adopted	2013
06.4.2	Dried pastas and noodles and like products	GMP	256	Adopted	2013
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41	Adopted	2013
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16	Adopted	2013
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		Adopted	2013
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	266 & 267	Adopted	2013
12.1.2	Salt Substitutes	GMP		Adopted	2013
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160	Adopted	2013
14.2.3	Grape wines	3000 mg/kg	109	7	

GELLAN GUM

INS 418

Gellan gum

Functional Class: Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1	Milk and buttermilk (plain)	GMP		7	
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235	Adopted	2013
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
04.1.1.2	Surface-treated fresh fruit	GMP		7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
06.4.1	Fresh pastas and noodles and like products	GMP		4	
06.4.2	Dried pastas and noodles and like products	GMP		7	
08.1	Fresh meat, poultry, and game	GMP		7	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
10.2.1	Liquid egg products	GMP		7	
10.2.2	Frozen egg products	GMP		7	
11.3	Sugar solutions and syrups, also (partially) inverted, including treacle and molasses, excluding products of food category 11.1.3	500 mg/kg		7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	500 mg/kg		7	
12.1.2	Salt Substitutes	GMP		7	

GELLAN GUM

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
12.2.1	Herbs and spices	GMP	51	7	
13.2	Complementary foods for infants and young children	GMP		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		7	
14.2.3	Grape wines	GMP		7	

GLUCONO DELTA-LACTONE

INS 575 Glucono delta-lactone Functional Class: Acidity regulator, Raising agent, Sequestrant

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP		Adopted	2013
01.6.6	Whey protein cheese	GMP		Adopted	2006
02.1.3	Lard, tallow, fish oil, and other animal fats	GMP		7	
06.4.1	Fresh pastas and noodles and like products	GMP		Adopted	2013
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	100 mg/kg		4	
13.2	Complementary foods for infants and young children	GMP	239	Adopted	2013

GLUCOSE OXIDASE

INS 1102 Glucose oxidase Functional Class: Antioxidant

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
06.2.1	Flours	780 mg/kg		4	
14.2.3	Grape wines	GMP		7	

GLUTAMIC ACID, L(+)-

INS 620 Glutamic acid, L(+)- Functional Class: Flavour enhancer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
12.1.2	Salt Substitutes	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	

GLYCEROL

INS 422 Glycerol Functional Class: Humectant, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1.2	Buttermilk (plain)	GMP		7	
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP		7	

GLYCEROL

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2.2	Renneted milk (plain)	GMP		7	
04.1.1.2	Surface-treated fresh fruit	GMP	16	7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	16	7	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP		4	
06.4.1	Fresh pastas and noodles and like products	GMP		4	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP	16	7	
08.1.2	Fresh meat, poultry, and game, comminuted	GMP		7	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
10.2.2	Frozen egg products	GMP		7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	GMP		7	
12.1.2	Salt Substitutes	GMP	51	7	
12.2.1	Herbs and spices	GMP	51	7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		7	

GLYCEROL ESTER OF WOOD ROSIN

INS 445(iii) Glycerol ester of wood rosin Functional Class: Emulsifier, Stabilizer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.1.1.2	Surface-treated fresh fruit	110 mg/kg		Adopted	2005
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	110 mg/kg		Adopted	2005
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	150 mg/kg		Adopted	1999

GRAPE SKIN EXTRACT

GRAPE SKIN EXTRACT

INS 163(ii) Grape skin extract Functional Class: Colour

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	150 mg/kg	52 & 181	Adopted	2009
01.4.4	Cream analogues	150 mg/kg	181 & 201	Adopted	2011
01.5.2	Milk and cream powder analogues	150 mg/kg	181, 201 & 209	Adopted	2011
01.6.2.2	Rind of ripened cheese	1000 mg/kg		Adopted	2009
01.6.4.2	Flavoured processed cheese, including containing fruit, vegetables, meat, etc.	1000 mg/kg		Adopted	2009
01.6.5	Cheese analogues	1000 mg/kg		Adopted	2009
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	200 mg/kg	181	Adopted	2009
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	200 mg/kg	181	Adopted	2009
03.0	Edible ices, including sherbet and sorbet	100 mg/kg	181	Adopted	2011
04.1.2.3	Fruit in vinegar, oil, or brine	1500 mg/kg	161	Adopted	2009
04.1.2.4	Canned or bottled (pasteurized) fruit	1500 mg/kg	181	Adopted	2011
04.1.2.5	Jams, jellies, marmelades	500 mg/kg	161 & 181	Adopted	2009
04.1.2.6	Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5	500 mg/kg	161 & 181	Adopted	2009
04.1.2.7	Candied fruit	1000 mg/kg		Adopted	2011
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	500 mg/kg	179, 181 & 182	Adopted	2011
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	500 mg/kg	161 & 181	Adopted	2009
04.1.2.10	Fermented fruit products	500 mg/kg	161 & 181	Adopted	2009
04.1.2.11	Fruit fillings for pastries	500 mg/kg	161 & 181	Adopted	2009
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	100 mg/kg	179 & 181	Adopted	2011
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g., peanut butter)	100 mg/kg	179 & 181	Adopted	2011
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	100 mg/kg	92 & 181	Adopted	2011
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	100 mg/kg	161 & 181	Adopted	2009
05.1.3	Cocoa-based spreads, including fillings	200 mg/kg	181	Adopted	2012
05.1.4	Cocoa and chocolate products	200 mg/kg	181 & 183	Adopted	2012

GRAPE SKIN EXTRACT

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
05.1.5	Imitation chocolate, chocolate substitute products	200 mg/kg	181	Adopted	2009
05.2.2	Soft candy	1700 mg/kg	181	Adopted	2012
05.3	Chewing gum	500 mg/kg	181	Adopted	2009
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	500 mg/kg	181	Adopted	2009
06.3	Breakfast cereals, including rolled oats	200 mg/kg		Adopted	2010
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	200 mg/kg	181	Adopted	2011
07.1.2	Crackers, excluding sweet crackers	200 mg/kg	181	Adopted	2011
07.1.4	Bread-type products, including bread stuffing and bread crumbs	200 mg/kg	181	Adopted	2011
08.1.2	Fresh meat, poultry, and game, comminuted	1000 mg/kg	4, 16 & 94	Adopted	2010
08.2	Processed meat, poultry, and game products in whole pieces or cuts	5000 mg/kg	16	Adopted	2011
08.3	Processed comminuted meat, poultry, and game products	5000 mg/kg	16	Adopted	2011
08.4	Edible casings (e.g., sausage casings)	5000 mg/kg		Adopted	2009
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	16	Adopted	2011
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16 & 95	Adopted	2009
09.2.4.1	Cooked fish and fish products	500 mg/kg	95	Adopted	2009
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	1000 mg/kg		Adopted	2011
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	1000 mg/kg	16 & 95	Adopted	2009
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	1000 mg/kg	22	Adopted	2009
09.3.1	Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly	500 mg/kg	16	Adopted	2009
09.3.2	Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine	1500 mg/kg	16	Adopted	2009
09.3.3	Salmon substitutes, caviar, and other fish roe products	1500 mg/kg		Adopted	2009
09.3.4	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3	1500 mg/kg	16	Adopted	2009
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	1500 mg/kg	16	Adopted	2009
10.1	Fresh eggs	1500 mg/kg	4	Adopted	2010
10.4	Egg-based desserts (e.g., custard)	200 mg/kg	181	Adopted	2009
12.4	Mustards	200 mg/kg	181	Adopted	2009
12.5	Soups and broths	500 mg/kg	181	Adopted	2009
12.6.1	Emulsified sauces and dips (e.g., mayonnaise, salad dressing, onion dip)	300 mg/kg	181	Adopted	2009
12.6.2	Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy)	300 mg/kg	181	Adopted	2009
12.6.3	Mixes for sauces and gravies	300 mg/kg	181	Adopted	2009

GRAPE SKIN EXTRACT

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
12.7	Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	1500 mg/kg		Adopted	2009
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	250 mg/kg	181	Adopted	2009
13.4	Dietetic formulae for slimming purposes and weight reduction	250 mg/kg	181	Adopted	2009
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	250 mg/kg	181	Adopted	2009
13.6	Food supplements	500 mg/kg	181	Adopted	2009
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	300 mg/kg	181	Adopted	2009
14.2.2	Cider and perry	300 mg/kg	181	Adopted	2009
14.2.4	Wines (other than grape)	300 mg/kg	181	Adopted	2009
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	300 mg/kg	181	Adopted	2010
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	300 mg/kg	181	Adopted	2009
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	500 mg/kg	181	Adopted	2009
15.2	Processed nuts, including coated nuts and nut mixtures (with e.g., dried fruit)	300 mg/kg	181	Adopted	2009
15.3	Snacks - fish based	400 mg/kg		Adopted	2011

GUAIAIC RESIN

INS 314 Guaiac resin Functional Class: Antioxidant

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
02.1.2	Vegetable oils and fats	1000 mg/kg		Adopted	2006
02.1.3	Lard, tallow, fish oil, and other animal fats	1000 mg/kg		Adopted	2006
02.2.2	Fat spreads, dairy fat spreads and blended spreads	1000 mg/kg		3	
05.3	Chewing gum	1500 mg/kg		Adopted	1999
12.6	Sauces and like products	600 mg/kg	15	Adopted	2004

GUANYLIC ACID, 5'-

INS 626 Guanylic acid, 5'- Functional Class: Flavour enhancer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
12.1.2	Salt Substitutes	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	

GUAR GUM

GUAR GUM

INS 412

Guar gum

Functional Class: Emulsifier, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1	Milk and buttermilk (plain)	6000 mg/kg		7	
01.2	Fermented and renneted milk products (plain), excluding food category 01.1.2 (dairy-based drinks)	GMP		4	
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.2.2	Renneted milk (plain)	GMP		Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
02.1.2	Vegetable oils and fats	20000 mg/kg		7	
02.1.3	Lard, tallow, fish oil, and other animal fats	20000 mg/kg		7	
04.1.1.2	Surface-treated fresh fruit	GMP		7	
04.1.1.3	Peeled or cut fresh fruit	GMP		7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
04.2.1.3	Peeled, cut or shredded fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	20000 mg/kg		7	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP		Adopted	2013
06.1	Whole, broken, or flaked grain, including rice	GMP		7	
06.4.1	Fresh pastas and noodles and like products	GMP		4	
06.4.2	Dried pastas and noodles and like products	GMP		7	
08.1.2	Fresh meat, poultry, and game, comminuted	GMP		7	
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	61 & 73	7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	2000 mg/kg		7	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
10.2.1	Liquid egg products	GMP		7	
10.2.2	Frozen egg products	GMP		7	

GUAR GUM

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	10000 mg/kg		7	
12.1.2	Salt Substitutes	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	
13.1.1	Infant formulae	1000 mg/kg	14 & 72	7	
13.1.2	Follow-up formulae	1000 mg/kg	72	7	
13.1.3	Formulae for special medical purposes for infants	1000 mg/kg	14 & 72	4	
13.2	Complementary foods for infants and young children	20000 mg/kg		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		7	
14.2.3	Grape wines	GMP		7	

GUM ARABIC (ACACIA GUM)

INS 414 Gum arabic (Acacia gum) Functional Class: Bulking agent, Carrier, Emulsifier, Glazing agent, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1.2	Buttermilk (plain)	GMP		7	
01.2	Fermented and renneted milk products (plain), excluding food category 01.1.2 (dairy-based drinks)	GMP		4	
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.2.2	Renneted milk (plain)	GMP		Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
02.1.2	Vegetable oils and fats	15000 mg/kg		7	
02.1.3	Lard, tallow, fish oil, and other animal fats	15000 mg/kg		7	
02.2.1	Butter	GMP		4	
04.1.1.2	Surface-treated fresh fruit	GMP	16	7	
04.2.1	Fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	83000 mg/kg	79	7	
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	83000 mg/kg		7	
06.4.1	Fresh pastas and noodles and like products	GMP		4	
06.4.2	Dried pastas and noodles and like products	GMP		7	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP	16	7	
08.1.2	Fresh meat, poultry, and game, comminuted	GMP		7	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	

GUM ARABIC (ACACIA GUM)

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
10.2.1	Liquid egg products	GMP		7	
10.2.2	Frozen egg products	GMP		7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	GMP		7	
12.1.2	Salt Substitutes	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	
13.1	Infant formulae, follow-up formulae, and formulae for special medical purposes for infants	GMP		4	
13.2	Complementary foods for infants and young children	20000 mg/kg		7	
13.2	Complementary foods for infants and young children	GMP		4	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		7	
14.2.3	Grape wines	300 mg/kg		7	
14.2.3	Grape wines	GMP		4	

HEXAMETHYLENE TETRAMINE

INS 239 Hexamethylene tetramine Functional Class: Preservative

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.6.2.1	Ripened cheese, includes rind	25 mg/kg	66	Adopted	2001

HYDROCHLORIC ACID

INS 507 Hydrochloric acid Functional Class: Acidity regulator

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
13.2	Complementary foods for infants and young children	GMP	239	Adopted	2013

HYDROGENATED POLY-1-DECENES

INS 907 Hydrogenated poly-1-decenes Functional Class: Glazing agent

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.1.2.2	Dried fruit	2000 mg/kg		4	
05.2.2	Soft candy	2000 mg/kg		4	

HYDROGENATED POLY-1-DECENES

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
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HYDROXYBENZOATES, PARA-

INS 214 Ethyl para-hydroxybenzoate Functional Class: Preservative

INS 218 Methyl para-hydroxybenzoate Functional Class: Preservative

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.6.4	Processed cheese	300 mg/kg	27	Adopted	2012
01.6.5	Cheese analogues	500 mg/kg	27	Adopted	2009
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	120 mg/kg	27	Adopted	2012
02.2.2	Fat spreads, dairy fat spreads and blended spreads	300 mg/kg	27	Adopted	2012
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	300 mg/kg	27	Adopted	2012
04.1.2.2	Dried fruit	800 mg/kg	27	Adopted	2010
04.1.2.3	Fruit in vinegar, oil, or brine	250 mg/kg	27	Adopted	2012
04.1.2.5	Jams, jellies, marmelades	250 mg/kg	27	Adopted	2012
04.1.2.6	Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5	1000 mg/kg	27	Adopted	2012
04.1.2.7	Candied fruit	1000 mg/kg	27	Adopted	2010
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	800 mg/kg	27	Adopted	2010
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	800 mg/kg	27	Adopted	2012
04.1.2.10	Fermented fruit products	800 mg/kg	27	Adopted	2010
04.1.2.11	Fruit fillings for pastries	800 mg/kg	27	Adopted	2010
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	1000 mg/kg	27	Adopted	2010
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g., peanut butter)	1000 mg/kg	27	Adopted	2010
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	1000 mg/kg	27	Adopted	2010
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	300 mg/kg	27	Adopted	2012
05.1.3	Cocoa-based spreads, including fillings	300 mg/kg	27	Adopted	2012
05.1.5	Imitation chocolate, chocolate substitute products	300 mg/kg	27	Adopted	2009
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	1000 mg/kg	27	Adopted	2012
05.3	Chewing gum	1500 mg/kg	27	Adopted	2010

HYDROXYBENZOATES, PARA-

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	300 mg/kg	27	Adopted	2010
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	300 mg/kg	27	Adopted	2010
08.4	Edible casings (e.g., sausage casings)	36 mg/kg	27	Adopted	2010
09.3	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms	1000 mg/kg	27	Adopted	2010
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	100 mg/kg	27	Adopted	2012
12.3	Vinegars	100 mg/kg	27	Adopted	2012
12.4	Mustards	300 mg/kg	27	Adopted	2010
12.6	Sauces and like products	1000 mg/kg	27	Adopted	2010
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	500 mg/kg	27	Adopted	2010
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	450 mg/kg	27 & 160	Adopted	2012
14.2.2	Cider and perry	200 mg/kg	27	Adopted	2010
14.2.4	Wines (other than grape)	200 mg/kg	27	Adopted	2012
14.2.5	Mead	200 mg/kg	27	Adopted	2010
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	1000 mg/kg	27 & 224	Adopted	2012
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	300 mg/kg	27	Adopted	2009
15.2	Processed nuts, including coated nuts and nut mixtures (with e.g., dried fruit)	300 mg/kg	27	Adopted	2010

HYDROXYPROPYL CELLULOSE

INS 463 Hydroxypropyl cellulose Functional Class: Emulsifier, Foaming agent, Glazing agent, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1.2	Buttermilk (plain)	GMP		7	
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.2.2	Renneted milk (plain)	GMP		Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
04.1.1.2	Surface-treated fresh fruit	GMP	16	7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	16	7	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP	16	7	
08.1.2	Fresh meat, poultry, and game, comminuted	GMP		7	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	

HYDROXYPROPYL CELLULOSE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41	7	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	GMP		7	
12.1.2	Salt Substitutes	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		7	

HYDROXYPROPYL DISTARCH PHOSPHATE

INS 1442 Hydroxypropyl distarch phosphate Functional Class: Emulsifier, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235	Adopted	2013
01.2.2	Renneted milk (plain)	GMP		Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
01.8.2	Dried whey and whey products, excluding whey cheeses	10000 mg/kg		Adopted	2006
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41	7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	10000 mg/kg		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	10000 mg/kg		7	

HYDROXYPROPYL METHYL CELLULOSE

INS 464 Hydroxypropyl methyl cellulose Functional Class: Bulking agent, Emulsifier, Glazing agent, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1.2	Buttermilk (plain)	GMP		7	
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.2.2	Renneted milk (plain)	GMP		Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013

HYDROXYPROPYL METHYL CELLULOSE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
04.1.1.2	Surface-treated fresh fruit	GMP	16	7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	16	7	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP	16	7	
08.1.2	Fresh meat, poultry, and game, comminuted	GMP		7	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41	7	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	GMP		7	
12.1.2	Salt Substitutes	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		7	

HYDROXYPROPYL STARCH

INS 1440

Hydroxypropyl starch

Functional Class: Emulsifier, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1.2	Buttermilk (plain)	GMP		7	
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235	Adopted	2013
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.2.2	Renneted milk (plain)	GMP		Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
04.1.1.2	Surface-treated fresh fruit	GMP	16	7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	16	7	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP	16	7	
08.1.2	Fresh meat, poultry, and game, comminuted	GMP		7	

HYDROXYPROPYL STARCH

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41	7	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	10000 mg/kg		7	
12.1.2	Salt Substitutes	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	
13.1.1	Infant formulae	5000 mg/kg	72 & 150	7	
13.1.3	Formulae for special medical purposes for infants	5000 mg/kg	72 & 150	4	
13.2	Complementary foods for infants and young children	60000 mg/kg		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	10000 mg/kg		7	

INDIGOTINE (INDIGO CARMINE)

INS 132 Indigotine (Indigo carmine) Functional Class: Colour

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	300 mg/kg	52	Adopted	2009
01.6.1	Unripened cheese	200 mg/kg	3	Adopted	2009
01.6.2.2	Rind of ripened cheese	100 mg/kg		Adopted	2009
01.6.4.2	Flavoured processed cheese, including containing fruit, vegetables, meat, etc.	100 mg/kg		Adopted	2009
01.6.5	Cheese analogues	200 mg/kg	3 & 161	Adopted	2009
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	150 mg/kg		Adopted	2009
02.1.3	Lard, tallow, fish oil, and other animal fats	300 mg/kg	161	Adopted	2009
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	300 mg/kg	161	Adopted	2009
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	150 mg/kg		Adopted	2009
03.0	Edible ices, including sherbet and sorbet	150 mg/kg		Adopted	2009
04.1.2.5	Jams, jellies, marmelades	300 mg/kg	161	Adopted	2009
04.1.2.6	Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5	300 mg/kg	161	Adopted	2009
04.1.2.7	Candied fruit	200 mg/kg	161	Adopted	2009

INDIGOTINE (INDIGO CARMINE)

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	150 mg/kg	161 & 182	Adopted	2009
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	150 mg/kg	161	Adopted	2009
04.1.2.11	Fruit fillings for pastries	150 mg/kg	161	Adopted	2009
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	150 mg/kg	161	Adopted	2009
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	200 mg/kg	92 & 161	Adopted	2009
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	300 mg/kg	161	Adopted	2009
05.1.4	Cocoa and chocolate products	450 mg/kg	183	Adopted	2009
05.1.5	Imitation chocolate, chocolate substitute products	300 mg/kg		Adopted	2009
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	300 mg/kg		Adopted	2009
05.3	Chewing gum	300 mg/kg		Adopted	2009
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	300 mg/kg		Adopted	2009
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	150 mg/kg		Adopted	2009
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	200 mg/kg	161	Adopted	2009
09.1.1	Fresh fish	300 mg/kg	4, 16 & 50	Adopted	2009
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	300 mg/kg	95	Adopted	2009
09.2.4.1	Cooked fish and fish products	300 mg/kg	95	Adopted	2009
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	250 mg/kg	16	Adopted	2009
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	300 mg/kg	22 & 161	Adopted	2009
09.3.3	Salmon substitutes, caviar, and other fish roe products	300 mg/kg		Adopted	2009
09.3.4	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3	300 mg/kg	161	Adopted	2009
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	300 mg/kg		Adopted	2009
10.1	Fresh eggs	300 mg/kg	4 & 161	Adopted	2009
10.4	Egg-based desserts (e.g., custard)	300 mg/kg	161	Adopted	2009
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	300 mg/kg	161	Adopted	2009
12.2.2	Seasonings and condiments	300 mg/kg		Adopted	2009
12.4	Mustards	300 mg/kg		Adopted	2009
12.5	Soups and broths	50 mg/kg		Adopted	2009

INDIGOTINE (INDIGO CARMINE)

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
12.6	Sauces and like products	300 mg/kg		Adopted	2009
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	50 mg/kg		Adopted	2009
13.4	Dietetic formulae for slimming purposes and weight reduction	50 mg/kg		Adopted	2009
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	300 mg/kg		Adopted	2009
13.6	Food supplements	300 mg/kg		Adopted	2009
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	100 mg/kg		Adopted	2009
14.2.2	Cider and perry	200 mg/kg		Adopted	2009
14.2.4	Wines (other than grape)	200 mg/kg		Adopted	2009
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	300 mg/kg		Adopted	2009
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	200 mg/kg		Adopted	2009
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	200 mg/kg		Adopted	2009
15.2	Processed nuts, including coated nuts and nut mixtures (with e.g., dried fruit)	100 mg/kg		Adopted	2009

INOSINIC ACID, 5'-

INS 630 Inosinic acid, 5'- Functional Class: Flavour enhancer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
12.1.2	Salt Substitutes	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	

INVERTASES

INS 1103 Invertases Functional Class: Stabilizer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
11.3	Sugar solutions and syrups, also (partially) inverted, including treacle and molasses, excluding products of food category 11.1.3	GMP		4	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	GMP		4	

IRON OXIDES

INS 172(i) Iron oxide, black Functional Class: Colour

INS 172(ii) Iron oxide, red Functional Class: Colour

INS 172(iii) Iron oxide, yellow Functional Class: Colour

IRON OXIDES

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	20 mg/kg	52	Adopted	2008
01.6.2.2	Rind of ripened cheese	100 mg/kg		Adopted	2005
01.6.4	Processed cheese	50 mg/kg		Adopted	2005
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	100 mg/kg		Adopted	2005
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	350 mg/kg		Adopted	2005
03.0	Edible ices, including sherbet and sorbet	300 mg/kg		Adopted	2005
04.1.1.2	Surface-treated fresh fruit	1000 mg/kg	4 & 16	Adopted	2008
04.1.2.4	Canned or bottled (pasteurized) fruit	300 mg/kg		Adopted	2005
04.1.2.5	Jams, jellies, marmelades	200 mg/kg		Adopted	2005
04.1.2.6	Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5	500 mg/kg		Adopted	2005
04.1.2.7	Candied fruit	250 mg/kg		Adopted	2005
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	200 mg/kg		Adopted	2005
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	200 mg/kg		Adopted	2005
05.3	Chewing gum	10000 mg/kg	161	Adopted	2009
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	100 mg/kg		Adopted	2005
06.3	Breakfast cereals, including rolled oats	75 mg/kg		Adopted	2005
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	75 mg/kg		Adopted	2005
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	100 mg/kg		Adopted	2005
08.4	Edible casings (e.g., sausage casings)	1000 mg/kg	72	Adopted	2005
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	250 mg/kg	22	Adopted	2005
09.3.3	Salmon substitutes, caviar, and other fish roe products	100 mg/kg		Adopted	2005
09.3.4	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3	50 mg/kg	95	Adopted	2010
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	50 mg/kg	95	Adopted	2010
10.1	Fresh eggs	GMP	4	Adopted	2005
10.4	Egg-based desserts (e.g., custard)	150 mg/kg		Adopted	2010
12.2.2	Seasonings and condiments	1000 mg/kg		Adopted	2005
12.5	Soups and broths	100 mg/kg		Adopted	2005
12.6	Sauces and like products	75 mg/kg		Adopted	2005
13.6	Food supplements	7500 mg/kg	3	Adopted	2009
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	100 mg/kg		Adopted	2005

IRON OXIDES

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	500 mg/kg		Adopted	2005
15.2	Processed nuts, including coated nuts and nut mixtures (with e.g., dried fruit)	400 mg/kg		Adopted	2005

ISOMALT (HYDROGENATED ISOMALTULOSE)

INS 953 Isomalt (Hydrogenated isomaltulose) Functional Class: Anticaking agent, Bulking agent, Glazing agent, Stabilizer, Sweetener, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP		7	
01.2.2	Renneted milk (plain)	GMP		7	
04.1.1.2	Surface-treated fresh fruit	GMP	16	7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	16	7	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	50000 mg/kg		4	
06.4.2	Dried pastas and noodles and like products	GMP		7	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP	16	7	
08.1.2	Fresh meat, poultry, and game, comminuted	GMP		7	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	100000 mg/kg		4	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.4.1	Cooked fish and fish products	GMP		7	
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	GMP		7	
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
11.3	Sugar solutions and syrups, also (partially) inverted, including treacle and molasses, excluding products of food category 11.1.3	GMP		4	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	GMP		7	
12.1.2	Salt Substitutes	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	
13.2	Complementary foods for infants and young children	100000 mg/kg		4	

ISOMALT (HYDROGENATED ISOMALTULOSE)

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	300000 mg/kg		4	

ISOPROPYL CITRATES

INS 384 Isopropyl citrates Functional Class: Antioxidant, Preservative, Sequestrant

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
02.1.2	Vegetable oils and fats	200 mg/kg		Adopted	2005
02.1.3	Lard, tallow, fish oil, and other animal fats	200 mg/kg		Adopted	2001
02.2.2	Fat spreads, dairy fat spreads and blended spreads	100 mg/kg		Adopted	2001
08.1.2	Fresh meat, poultry, and game, comminuted	200 mg/kg		Adopted	2001
08.2.1.2	Cured (including salted) and dried non-heat treated processed meat, poultry, and game products in whole pieces or cuts	200 mg/kg		Adopted	2001
08.3.1.2	Cured (including salted) and dried non-heat treated processed comminuted meat, poultry, and game products	200 mg/kg		Adopted	2001
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	200 mg/kg		Adopted	2001

KARAYA GUM

INS 416 Karaya gum Functional Class: Emulsifier, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1	Milk and buttermilk (plain)	200 mg/kg		7	
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	200 mg/kg	234 & 235	Adopted	2013
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
04.1.1.2	Surface-treated fresh fruit	GMP		7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
06.4.1	Fresh pastas and noodles and like products	GMP		4	
06.4.2	Dried pastas and noodles and like products	GMP		7	
08.1	Fresh meat, poultry, and game	GMP		7	
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
10.2.1	Liquid egg products	GMP		7	
10.2.2	Frozen egg products	GMP		7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	GMP		7	
12.1.2	Salt Substitutes	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	
13.2	Complementary foods for infants and young children	GMP		7	

KARAYA GUM

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		7	
14.2.3	Grape wines	GMP		7	

KONJAC FLOUR

INS 425

Konjac flour

Functional Class: Carrier, Emulsifier, Gelling agent, Glazing agent, Humectant, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1	Milk and buttermilk (plain)	GMP		7	
01.2	Fermented and renneted milk products (plain), excluding food category 01.1.2 (dairy-based drinks)	GMP		4	
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	236	Adopted	2013
04.1.1.2	Surface-treated fresh fruit	GMP		7	
04.1.1.3	Peeled or cut fresh fruit	GMP		7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
04.2.1.3	Peeled, cut or shredded fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
06.4.1	Fresh pastas and noodles and like products	GMP		4	
06.4.2	Dried pastas and noodles and like products	10000 mg/kg		7	
08.1	Fresh meat, poultry, and game	GMP		7	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
10.2.1	Liquid egg products	GMP		7	
10.2.2	Frozen egg products	GMP		7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	GMP		7	
12.1.2	Salt Substitutes	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	
13.2	Complementary foods for infants and young children	GMP		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		7	
14.2.3	Grape wines	GMP		7	

LACTIC ACID, L-, D- and DL-

LACTIC ACID, L-, D- and DL-

INS 270 Lactic acid, L-, D- and DL- Functional Class: Acidity regulator

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.4.1	Pasteurized cream (plain)	GMP		Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
01.6.6	Whey protein cheese	GMP		Adopted	2006
04.2.1.1	Untreated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes [(including soybeans)], and aloe vera), seaweeds, and nuts and seeds	GMP	262 & 264	Adopted	2013
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	262 & 264	Adopted	2013
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP		Adopted	2013
06.4.1	Fresh pastas and noodles and like products	GMP		Adopted	2013
06.4.2	Dried pastas and noodles and like products	GMP	256	Adopted	2013
10.2.1	Liquid egg products	GMP		Adopted	2013
10.2.2	Frozen egg products	GMP		Adopted	2013
12.1.2	Salt Substitutes	GMP		Adopted	2013
13.1.1	Infant formulae	GMP	72 & 83	7	
13.1.2	Follow-up formulae	GMP	72 & 83	Adopted	2013
13.1.3	Formulae for special medical purposes for infants	GMP	72 & 83	4	
13.2	Complementary foods for infants and young children	2000 mg/kg	83 & 238	Adopted	2013
14.2.3	Grape wines	4000 mg/kg		4	

LACTIC AND FATTY ACID ESTERS OF GLYCEROL

INS 472b Lactic and fatty acid esters of glycerol Functional Class: Emulsifier, Sequestrant, Stabilizer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1.2	Buttermilk (plain)	GMP		7	
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.2.2	Renneted milk (plain)	GMP		Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
02.1.2	Vegetable oils and fats	GMP		7	
02.1.3	Lard, tallow, fish oil, and other animal fats	80000 mg/kg		7	

LACTIC AND FATTY ACID ESTERS OF GLYCEROL

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.1.1.2	Surface-treated fresh fruit	GMP	16	7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	16	7	
06.1	Whole, broken, or flaked grain, including rice	GMP		7	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP	16	7	
08.1.2	Fresh meat, poultry, and game, comminuted	GMP		7	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	GMP		7	
12.1.2	Salt Substitutes	5000 mg/kg		7	
12.2.1	Herbs and spices	5000 mg/kg	51	7	
13.2	Complementary foods for infants and young children	5000 mg/kg		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		7	

LACTITOL

INS 966

Lactitol

Functional Class: Emulsifier, Sweetener, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2	Fermented and renneted milk products (plain), excluding food category 01.1.2 (dairy-based drinks)	30000 mg/kg		4	
01.4.1	Pasteurized cream (plain)	30000 mg/kg		4	
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	30000 mg/kg		4	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	10000 mg/kg		4	
06.4.2	Dried pastas and noodles and like products	GMP		7	
08.1	Fresh meat, poultry, and game	GMP		4	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	20000 mg/kg		4	

LACTITOL

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	GMP		4	
12.1.2	Salt Substitutes	GMP		4	
12.2.1	Herbs and spices	GMP	51	4	
13.2	Complementary foods for infants and young children	GMP		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	30000 mg/kg		4	

LAURIC ARGINATE ETHYL ESTER

INS 243 Lauric arginate ethyl ester Functional Class: Preservative

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.6.1	Unripened cheese	200 mg/kg		Adopted	2011
01.6.2.1	Ripened cheese, includes rind	200 mg/kg		Adopted	2011
01.6.3	Whey cheese	200 mg/kg		Adopted	2011
01.6.4	Processed cheese	200 mg/kg		Adopted	2011
01.6.5	Cheese analogues	200 mg/kg		Adopted	2011
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	200 mg/kg	170	Adopted	2011
02.2.2	Fat spreads, dairy fat spreads and blended spreads	200 mg/kg	214 & 215	Adopted	2011
04.1.2.2	Dried fruit	200 mg/kg		Adopted	2011
04.1.2.11	Fruit fillings for pastries	200 mg/kg		Adopted	2011
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	200 mg/kg		Adopted	2011
04.2.1.3	Peeled, cut or shredded fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	200 mg/kg		Adopted	2011
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	200 mg/kg		Adopted	2011
05.1.3	Cocoa-based spreads, including fillings	200 mg/kg		Adopted	2011
05.3	Chewing gum	225 mg/kg		Adopted	2011
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	200 mg/kg		Adopted	2011
08.2.3	Frozen processed meat, poultry, and game products in whole pieces or cuts	200 mg/kg	3	3	
08.3.3	Frozen processed comminuted meat, poultry, and game products	200 mg/kg	3	3	
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	200 mg/kg		4	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	200 mg/kg		4	

LAURIC ARGINATE ETHYL ESTER

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
09.3.1	Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly	200 mg/kg		4	
09.3.2	Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine	200 mg/kg		4	
09.3.3	Salmon substitutes, caviar, and other fish roe products	200 mg/kg		4	
09.3.4	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3	200 mg/kg		4	
10.2	Egg products	200 mg/kg		Adopted	2011
10.4	Egg-based desserts (e.g., custard)	200 mg/kg		Adopted	2011
12.2.2	Seasonings and condiments	200 mg/kg		Adopted	2011
12.5.1	Ready-to-eat soups and broths, including canned, bottled, and frozen	200 mg/kg		Adopted	2011
12.5.2	Mixes for soups and broths	200 mg/kg	127	Adopted	2011
12.6.1	Emulsified sauces and dips (e.g., mayonnaise, salad dressing, onion dip)	200 mg/kg		Adopted	2011
12.6.2	Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy)	200 mg/kg		Adopted	2011
12.7	Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	200 mg/kg		Adopted	2011
14.1.4.1	Carbonated water-based flavoured drinks	50 mg/kg		Adopted	2011
14.1.4.2	Non-carbonated water-based flavoured drinks, including punches and ades	50 mg/kg		Adopted	2011
14.1.4.3	Concentrates (liquid or solid) for water-based flavoured drinks	50 mg/kg	127	Adopted	2011

LECITHIN

INS 322(i)

Lecithin

Functional Class: Antioxidant, Emulsifier

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1.2	Buttermilk (plain)	GMP		7	
01.2.2	Renneted milk (plain)	GMP		Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
02.1.2	Vegetable oils and fats	30000 mg/kg		7	
02.1.3	Lard, tallow, fish oil, and other animal fats	30000 mg/kg		7	
04.1.1.2	Surface-treated fresh fruit	GMP	16	7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	16	7	
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	

LECITHIN

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP		Adopted	2013
06.2	Flours and starches (including soybean powder)	5000 mg/kg		7	
06.4.1	Fresh pastas and noodles and like products	GMP		4	
06.4.2	Dried pastas and noodles and like products	5000 mg/kg		7	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP	16	7	
08.1.2	Fresh meat, poultry, and game, comminuted	GMP		7	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41	7	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
10.2.1	Liquid egg products	GMP		7	
10.2.2	Frozen egg products	GMP		7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	GMP		7	
12.1.2	Salt Substitutes	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	
13.1.1	Infant formulae	5000 mg/kg	72	7	
13.1.2	Follow-up formulae	5000 mg/kg	72	7	
13.1.3	Formulae for special medical purposes for infants	5000 mg/kg	72	4	
13.2	Complementary foods for infants and young children	15000 mg/kg		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		7	

LUTEIN FROM TAGETES ERECTA

INS 161b(i) Lutein from Tagetes erecta Functional Class: Colour

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	100 mg/kg	52	4	
01.6.1	Unripened cheese	GMP		4	
01.6.2	Ripened cheese	GMP		4	

LUTEIN FROM TAGETES ERECTA

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.6.4.1	Plain processed cheese	GMP		4	
01.6.4.2	Flavoured processed cheese, including containing fruit, vegetables, meat, etc.	100 mg/kg		4	
01.6.5	Cheese analogues	GMP		4	
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	150 mg/kg		4	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	150 mg/kg		4	
03.0	Edible ices, including sherbet and sorbet	150 mg/kg		4	
04.1.2.5	Jams, jellies, marmelades	100 mg/kg		4	
04.1.2.7	Candied fruit	200 mg/kg		4	
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	150 mg/kg		4	
04.1.2.11	Fruit fillings for pastries	150 mg/kg		4	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP		4	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	300 mg/kg		4	
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	500 mg/kg		4	
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	150 mg/kg		4	
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	200 mg/kg		4	
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	4 & 16	4	
08.3.1.1	Cured (including salted) non-heat treated processed comminuted meat, poultry, and game products	GMP		4	
08.4	Edible casings (e.g., sausage casings)	GMP		4	
09.1.1	Fresh fish	300 mg/kg	4, 16 & 50	4	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	95	4	
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	250 mg/kg		4	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	100 mg/kg	22	4	
09.3.1	Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly	GMP		4	
09.3.3	Salmon substitutes, caviar, and other fish roe products	500 mg/kg		4	
10.2	Egg products	GMP		4	
10.4	Egg-based desserts (e.g., custard)	150 mg/kg		4	
12.2.2	Seasonings and condiments	500 mg/kg		4	
12.4	Mustards	300 mg/kg		4	
12.5	Soups and broths	50 mg/kg		4	
12.6	Sauces and like products	500 mg/kg	92	4	

LUTEIN FROM TAGETES ERECTA

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	50 mg/kg		4	
13.4	Dietetic formulae for slimming purposes and weight reduction	50 mg/kg		4	
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	100 mg/kg		4	
13.6	Food supplements	300 mg/kg		4	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	100 mg/kg		4	
14.2.2	Cider and perry	200 mg/kg		4	
14.2.4	Wines (other than grape)	200 mg/kg		4	
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	200 mg/kg		4	
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	200 mg/kg		4	
15.2	Processed nuts, including coated nuts and nut mixtures (with e.g., dried fruit)	100 mg/kg		4	

LYCOPENE, BLAKESLEA TRISPORA

INS 160d(iii) Lycopene, Blakeslea trispora Functional Class: Colour

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2	Fermented and renneted milk products (plain), excluding food category 01.1.2 (dairy-based drinks)	100 mg/kg		4	
02.1	Fats and oils essentially free from water	25 mg/kg		4	
02.2.1	Butter	25 mg/kg		4	
06.4.2	Dried pastas and noodles and like products	100 mg/kg	211	4	
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	100 mg/kg	95	4	
10.1	Fresh eggs	1000 mg/kg	4	4	
10.2.1	Liquid egg products	100 mg/kg		4	
10.2.2	Frozen egg products	100 mg/kg		4	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	50 mg/kg		4	

LYCOPENE, SYNTHETIC

INS 160d(i) Lycopene, synthetic Functional Class: Colour

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2	Fermented and renneted milk products (plain), excluding food category 01.1.2 (dairy-based drinks)	100 mg/kg		4	
02.1	Fats and oils essentially free from water	25 mg/kg		4	
02.2.1	Butter	25 mg/kg		4	

LYCOPENE, SYNTHETIC

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
06.4.2	Dried pastas and noodles and like products	100 mg/kg	211	4	
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	100 mg/kg	95	4	
10.1	Fresh eggs	1000 mg/kg	4	4	
10.2.1	Liquid egg products	100 mg/kg		4	
10.2.2	Frozen egg products	100 mg/kg		4	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	50 mg/kg		4	

LYCOPENE, TOMATO

INS 160d(ii) Lycopene, tomato

Functional Class: Colour

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2	Fermented and renneted milk products (plain), excluding food category 01.1.2 (dairy-based drinks)	100 mg/kg		4	
01.3.2	Beverage whiteners	5000 mg/kg		3	
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	5000 mg/kg		3	
01.4.4	Cream analogues	5000 mg/kg		3	
01.6.4	Processed cheese	1500 mg/kg		3	
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	5000 mg/kg		3	
02.1	Fats and oils essentially free from water	25 mg/kg		4	
02.1.2	Vegetable oils and fats	50000 mg/kg		3	
02.1.3	Lard, tallow, fish oil, and other animal fats	5000 mg/kg		3	
02.2.1	Butter	25 mg/kg		4	
02.2.2	Fat spreads, dairy fat spreads and blended spreads	10000 mg/kg		3	
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	5000 mg/kg		3	
05.1.4	Cocoa and chocolate products	6000 mg/kg		3	
05.1.5	Imitation chocolate, chocolate substitute products	6000 mg/kg		3	
05.2.1	Hard candy	50000 mg/kg		3	
05.2.2	Soft candy	5000 mg/kg		3	
05.3	Chewing gum	50000 mg/kg		3	
06.4.2	Dried pastas and noodles and like products	100 mg/kg	211	4	
06.8.8	Other soybean protein products	10000 mg/kg		3	
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	100 mg/kg	95	4	
10.1	Fresh eggs	1000 mg/kg	4	4	
10.2.1	Liquid egg products	100 mg/kg		4	

LYCOPENE, TOMATO

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
10.2.2	Frozen egg products	100 mg/kg		4	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	50 mg/kg		4	
12.2.1	Herbs and spices	2000 mg/kg		3	
12.2.2	Seasonings and condiments	20000 mg/kg		3	
12.6.3	Mixes for sauces and gravies	5000 mg/kg		3	
13.6	Food supplements	50000 mg/kg		3	

LYSOZYME

INS 1105 Lysozyme Functional Class: Preservative

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.6.2	Ripened cheese	GMP		Adopted	1999
14.2.2	Cider and perry	500 mg/kg		Adopted	2004
14.2.3	Grape wines	500 mg/kg		Adopted	2004

MAGNESIUM CARBONATE

INS 504(i) Magnesium carbonate Functional Class: Acidity regulator, Anticaking agent, Colour retention agent

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1.2	Buttermilk (plain)	GMP	261	Adopted	2013
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP		Adopted	2013
01.8.2	Dried whey and whey products, excluding whey cheeses	10000 mg/kg		Adopted	2006
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	16	7	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	5000 mg/kg	36	Adopted	2013
06.2.1	Flours	1500 mg/kg		4	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP	16	7	
08.1.2	Fresh meat, poultry, and game, comminuted	GMP		7	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	5000 mg/kg	36	4	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	Adopted	2013
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16	Adopted	2013

MAGNESIUM CARBONATE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		Adopted	2013
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	266 & 267	Adopted	2013
11.1.2	Powdered sugar, powdered dextrose	15000 mg/kg	56	Adopted	2006
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	GMP	258	Adopted	2013
12.1.1	Salt	GMP		Adopted	2006
12.1.2	Salt Substitutes	GMP		Adopted	2013
12.2.1	Herbs and spices	5000 mg/kg	36 & 51	4	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160	Adopted	2013

MAGNESIUM CHLORIDE

INS 511

Magnesium chloride

Functional Class: Colour retention agent, Firming agent, Stabilizer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1.2	Buttermilk (plain)	GMP		7	
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.2.2	Renneted milk (plain)	GMP		Adopted	2013
04.1.1.2	Surface-treated fresh fruit	GMP	16	7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	16	7	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	2260 mg/kg		7	
08.1.2	Fresh meat, poultry, and game, comminuted	GMP		7	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	GMP		7	
12.1.2	Salt Substitutes	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		7	

MAGNESIUM DI-L-GLUTAMATE

MAGNESIUM DI-L-GLUTAMATE

INS 625 Magnesium di-L-glutamate Functional Class: Flavour enhancer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
12.1.2	Salt Substitutes	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	

MAGNESIUM HYDROXIDE

INS 528 Magnesium hydroxide Functional Class: Acidity regulator, Colour retention agent

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1.2	Buttermilk (plain)	GMP	261	Adopted	2013
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP		Adopted	2013
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	16	7	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP	16	7	
08.1.2	Fresh meat, poultry, and game, comminuted	GMP		7	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	Adopted	2013
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16	Adopted	2013
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		Adopted	2013
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	266 & 267	Adopted	2013
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	GMP	258	Adopted	2013
12.1.2	Salt Substitutes	GMP		Adopted	2013
12.2.1	Herbs and spices	GMP	51	7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160	Adopted	2013

MAGNESIUM HYDROXIDE CARBONATE

INS 504(ii) Magnesium hydroxide carbonate Functional Class: Acidity regulator, Anticaking agent, Carrier, Colour retention agent

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1.2	Buttermilk (plain)	GMP	261	Adopted	2013
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP		Adopted	2013
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	16	7	

MAGNESIUM HYDROXIDE CARBONATE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP	16	7	
08.1.2	Fresh meat, poultry, and game, comminuted	GMP		7	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	Adopted	2013
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16	Adopted	2013
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		Adopted	2013
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	266 & 267	Adopted	2013
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	GMP	258	Adopted	2013
12.1.2	Salt Substitutes	GMP		Adopted	2013
12.2.1	Herbs and spices	GMP	51	7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160	Adopted	2013

MAGNESIUM OXIDE

INS 530 Magnesium oxide Functional Class: Anticaking agent

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.8.2	Dried whey and whey products, excluding whey cheeses	10000 mg/kg		Adopted	2006
12.1.1	Salt	GMP		Adopted	2006

MAGNESIUM SILICATE, SYNTHETIC

INS 553(i) Magnesium silicate, synthetic Functional Class: Anticaking agent

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.8.2	Dried whey and whey products, excluding whey cheeses	10000 mg/kg		Adopted	2006
11.1.2	Powdered sugar, powdered dextrose	15000 mg/kg	56	Adopted	2006
12.1.1	Salt	GMP		Adopted	2006
12.1.2	Salt Substitutes	10000 mg/kg		7	

MAGNESIUM SULFATE

INS 518 Magnesium sulfate Functional Class: Firming agent, Flavour enhancer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
12.1.2	Salt Substitutes	25000 mg/kg		3	
14.1.1.2	Table waters and soda waters	50 mg/kg		3	

MAGNESIUM SULFATE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
14.1.2.2	Vegetable juice	2000 mg/kg		3	
14.1.2.4	Concentrates for vegetable juice	2000 mg/kg	127	3	

MALIC ACID, DL-

INS 296 Malic acid, DL- Functional Class: Acidity regulator

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP		Adopted	2013
01.6.6	Whey protein cheese	GMP		Adopted	2006
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	265	Adopted	2013
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP		Adopted	2013
06.4.2	Dried pastas and noodles and like products	GMP	256	Adopted	2013
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41	Adopted	2013
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16	Adopted	2013
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		Adopted	2013
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	266 & 267	Adopted	2013
12.1.2	Salt Substitutes	GMP		Adopted	2013
13.2	Complementary foods for infants and young children	GMP	239	Adopted	2013
14.1.2.1	Fruit juice	GMP	115	Adopted	2005
14.1.2.2	Vegetable juice	GMP		Adopted	2013
14.1.2.3	Concentrates for fruit juice	GMP	115 & 127	Adopted	2005
14.1.2.4	Concentrates for vegetable juice	GMP		Adopted	2013
14.1.3.1	Fruit nectar	GMP		Adopted	2005
14.1.3.2	Vegetable nectar	GMP		Adopted	2013
14.1.3.3	Concentrates for fruit nectar	GMP	127	Adopted	2005
14.1.3.4	Concentrates for vegetable nectar	GMP		Adopted	2013
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160	Adopted	2013
14.2.3	Grape wines	4000 mg/kg		4	

MALTITOL

INS 965(i) Maltitol Functional Class: Bulking agent, Emulsifier, Humectant, Stabilizer, Sweetener, Thickener

MALTITOL

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2	Fermented and renneted milk products (plain), excluding food category 01.1.2 (dairy-based drinks)	50000 mg/kg		4	
01.4.1	Pasteurized cream (plain)	300000 mg/kg		4	
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	300000 mg/kg		4	
04.1.1.2	Surface-treated fresh fruit	GMP		4	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		4	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	100000 mg/kg		4	
06.4.2	Dried pastas and noodles and like products	GMP		7	
08.1	Fresh meat, poultry, and game	GMP		4	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
10.2.2	Frozen egg products	GMP		4	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	GMP		4	
12.1.2	Salt Substitutes	50000 mg/kg		4	
12.2.1	Herbs and spices	50000 mg/kg	51	4	
13.2	Complementary foods for infants and young children	GMP		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	100000 mg/kg		4	

MALTITOL SYRUP

INS 965(ii) Maltitol syrup

Functional Class: Bulking agent, Emulsifier, Humectant, Stabilizer, Sweetener, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2	Fermented and renneted milk products (plain), excluding food category 01.1.2 (dairy-based drinks)	50000 mg/kg		4	
01.4.1	Pasteurized cream (plain)	300000 mg/kg		4	
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	300000 mg/kg		4	
04.1.1.2	Surface-treated fresh fruit	GMP		4	

MALTITOL SYRUP

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		4	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	100000 mg/kg		4	
06.4.2	Dried pastas and noodles and like products	GMP		7	
08.1	Fresh meat, poultry, and game	GMP		4	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
10.2.2	Frozen egg products	GMP		4	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	GMP		4	
12.1.2	Salt Substitutes	50000 mg/kg		4	
12.2.1	Herbs and spices	50000 mg/kg	51	4	
13.2	Complementary foods for infants and young children	GMP		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	100000 mg/kg		4	

MALTOL

INS 636

Maltol

Functional Class: Flavour enhancer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	200 mg/kg		7	
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	200 mg/kg		7	
03.0	Edible ices, including sherbet and sorbet	200 mg/kg		7	
05.1.4	Cocoa and chocolate products	200 mg/kg		7	
05.1.5	Imitation chocolate, chocolate substitute products	200 mg/kg		7	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	200 mg/kg		7	
05.3	Chewing gum	200 mg/kg		7	
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	200 mg/kg		7	

MALTOL

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	200 mg/kg		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	200 mg/kg		7	
14.2.2	Cider and perry	250 mg/kg		7	
14.2.3	Grape wines	250 mg/kg		7	
14.2.4	Wines (other than grape)	250 mg/kg		7	

MANNITOL

INS 421 Mannitol Functional Class: Anticaking agent, Bulking agent, Humectant, Stabilizer, Sweetener, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2.2	Renneted milk (plain)	GMP		Adopted	2013
04.1.1.2	Surface-treated fresh fruit	GMP		4	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		4	
06.4.2	Dried pastas and noodles and like products	GMP		7	
08.1	Fresh meat, poultry, and game	GMP		4	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
10.2.2	Frozen egg products	GMP		4	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	GMP		4	
12.1.2	Salt Substitutes	60000 mg/kg		4	
12.2.1	Herbs and spices	60000 mg/kg	51	4	
13.2	Complementary foods for infants and young children	GMP		7	

METHYL CELLULOSE

INS 461 Methyl cellulose Functional Class: Bulking agent, Emulsifier, Glazing agent, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1.2	Buttermilk (plain)	GMP		7	

METHYL CELLULOSE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.2.2	Renneted milk (plain)	GMP		Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
04.1.1.2	Surface-treated fresh fruit	GMP	16	7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	16	7	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP	16	7	
08.1.2	Fresh meat, poultry, and game, comminuted	GMP		7	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	61	7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41 & 61	7	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	GMP		7	
12.1.2	Salt Substitutes	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		7	

METHYL ETHYL CELLULOSE

INS 465 Methyl ethyl cellulose Functional Class: Emulsifier, Foaming agent, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1.2	Buttermilk (plain)	GMP		7	
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.2.2	Renneted milk (plain)	GMP		Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
04.1.1.2	Surface-treated fresh fruit	GMP	16	7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	16	7	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP	16	7	

METHYL ETHYL CELLULOSE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
08.1.2	Fresh meat, poultry, and game, comminuted	GMP		7	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41	7	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	GMP		7	
12.1.2	Salt Substitutes	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		7	

MICROCRYSTALLINE CELLULOSE (CELLULOSE GEL)

INS 460(i) Microcrystalline cellulose Functional Class: Anticaking agent, Bulking agent, Carrier, Emulsifier, (Cellulose gel) Foaming agent, Glazing agent, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1	Milk and buttermilk (plain)	GMP		7	
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235	Adopted	2013
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.2.2	Renneted milk (plain)	GMP		Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
01.8.2	Dried whey and whey products, excluding whey cheeses	10000 mg/kg		Adopted	2006
02.1.2	Vegetable oils and fats	GMP		7	
02.1.3	Lard, tallow, fish oil, and other animal fats	GMP		7	
04.1.1.2	Surface-treated fresh fruit	GMP	16	7	
04.1.1.3	Peeled or cut fresh fruit	GMP		7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	16	7	
04.2.1.3	Peeled, cut or shredded fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	

MICROCRYSTALLINE CELLULOSE (CELLULOSE GEL)

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
06.4.1	Fresh pastas and noodles and like products	GMP		4	
06.4.2	Dried pastas and noodles and like products	GMP		7	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP	16	7	
08.1.2	Fresh meat, poultry, and game, comminuted	GMP		7	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	10000 mg/kg		7	
10.2.1	Liquid egg products	GMP		7	
10.2.2	Frozen egg products	GMP		7	
11.2	Brown sugar excluding products of food category 11.1.3	GMP		4	
11.3	Sugar solutions and syrups, also (partially) inverted, including treacle and molasses, excluding products of food category 11.1.3	GMP		4	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	GMP		7	
12.1.2	Salt Substitutes	22000 mg/kg		7	
12.2.1	Herbs and spices	GMP	51	7	
13.2	Complementary foods for infants and young children	GMP		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		7	

MICROCRYSTALLINE WAX

INS 905c(i) Microcrystalline wax Functional Class: Antifoaming agent, Glazing agent

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.6.2.2	Rind of ripened cheese	30000 mg/kg		Adopted	2004
04.1.1.2	Surface-treated fresh fruit	50 mg/kg		Adopted	2004
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	50 mg/kg		Adopted	2004
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	GMP	3	Adopted	2001
05.3	Chewing gum	20000 mg/kg	3	Adopted	2001

MINERAL OIL, HIGH VISCOSITY

INS 905d Mineral oil, high viscosity Functional Class: Antifoaming agent, Glazing agent

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.1.2.2	Dried fruit	5000 mg/kg		Adopted	2005
05.1	Cocoa products and chocolate products including imitations and chocolate substitutes	2000 mg/kg	3	Adopted	2004

MINERAL OIL, HIGH VISCOSITY

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	2000 mg/kg	3	Adopted	2004
05.3	Chewing gum	20000 mg/kg		Adopted	2004
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	2000 mg/kg	3	Adopted	2004
06.1	Whole, broken, or flaked grain, including rice	800 mg/kg	98	Adopted	2004
07.0	Bakery wares	3000 mg/kg	125	Adopted	2004
08.2.3	Frozen processed meat, poultry, and game products in whole pieces or cuts	950 mg/kg	3	Adopted	2004
08.3.3	Frozen processed comminuted meat, poultry, and game products	950 mg/kg	3	Adopted	2004

MINERAL OIL, MEDIUM VISCOSITY

INS 905e Mineral oil, medium viscosity Functional Class: Glazing agent

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.1.2.2	Dried fruit	5000 mg/kg		Adopted	2005
05.0	Confectionery	2000 mg/kg	3	Adopted	2004
07.1.1	Breads and rolls	3000 mg/kg	36 & 126	Adopted	2004

MONO- AND DI-GLYCERIDES OF FATTY ACIDS

INS 471 Mono- and di-glycerides of fatty acids Functional Class: Antifoaming agent, Emulsifier, Stabilizer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1	Milk and buttermilk (plain)	10000 mg/kg		7	
01.2	Fermented and renneted milk products (plain), excluding food category 01.1.2 (dairy-based drinks)	5000 mg/kg		7	
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
02.1.2	Vegetable oils and fats	20000 mg/kg		7	
02.1.3	Lard, tallow, fish oil, and other animal fats	100000 mg/kg		7	
04.1.1.2	Surface-treated fresh fruit	GMP	16	7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	16	7	
06.1	Whole, broken, or flaked grain, including rice	GMP		7	
06.4.1	Fresh pastas and noodles and like products	GMP		4	
06.4.2	Dried pastas and noodles and like products	30000 mg/kg		7	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP	16	7	
08.1.2	Fresh meat, poultry, and game, comminuted	GMP		7	

MONO- AND DI-GLYCERIDES OF FATTY ACIDS

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	10000 mg/kg		7	
10.2.2	Frozen egg products	GMP		7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	6000 mg/kg		7	
12.1.2	Salt Substitutes	5000 mg/kg		7	
12.2.1	Herbs and spices	5000 mg/kg	51	7	
13.1.1	Infant formulae	4000 mg/kg	72	7	
13.1.2	Follow-up formulae	4000 mg/kg	72	7	
13.1.3	Formulae for special medical purposes for infants	4000 mg/kg	72	4	
13.2	Complementary foods for infants and young children	5000 mg/kg		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		7	
14.2.3	Grape wines	18 mg/kg		7	

MONOAMMONIUM L-GLUTAMATE

INS 624 Monoammonium L-glutamate Functional Class: Flavour enhancer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
08.1	Fresh meat, poultry, and game	GMP		7	
12.1.2	Salt Substitutes	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	

MONOPOTASSIUM L-GLUTAMATE

INS 622 Monopotassium L-glutamate Functional Class: Flavour enhancer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41	7	
12.1.2	Salt Substitutes	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	

MONOSODIUM L-GLUTAMATE

INS 621 Monosodium L-glutamate Functional Class: Flavour enhancer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	

MONOSODIUM L-GLUTAMATE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP		4	
06.4.2	Dried pastas and noodles and like products	GMP		4	
08.1	Fresh meat, poultry, and game	GMP		7	
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41	7	
12.1.2	Salt Substitutes	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		4	

MONOSTARCH PHOSPHATE

INS 1410 Monostarch phosphate Functional Class: Emulsifier, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235	Adopted	2013
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.2.2	Renneted milk (plain)	GMP		Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41	7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	10000 mg/kg		7	
13.2	Complementary foods for infants and young children	50000 mg/kg		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	10000 mg/kg		7	

NATAMYCIN (PIMARICIN)

INS 235 Natamycin (Pimaricin) Functional Class: Preservative

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.6.1	Unripened cheese	40 mg/kg	3 & 80	Adopted	2006
01.6.2	Ripened cheese	40 mg/kg	3 & 80	Adopted	2006
01.6.4	Processed cheese	40 mg/kg	3 & 80	Adopted	2006
01.6.5	Cheese analogues	40 mg/kg	3 & 80	Adopted	2006
01.6.6	Whey protein cheese	40 mg/kg	3 & 80	Adopted	2006

NATAMYCIN (PIMARICIN)

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
08.2.1.2	Cured (including salted) and dried non-heat treated processed meat, poultry, and game products in whole pieces or cuts	6 mg/kg		Adopted	2001
08.3.1.2	Cured (including salted) and dried non-heat treated processed comminuted meat, poultry, and game products	20 mg/kg	3 & 81	Adopted	2001

NEOTAME

INS 961

Neotame

Functional Class: Flavour enhancer, Sweetener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	20 mg/kg	161	Adopted	2007
01.3.2	Beverage whiteners	65 mg/kg	161	Adopted	2008
01.4.4	Cream analogues	33 mg/kg	161	Adopted	2008
01.5.2	Milk and cream powder analogues	65 mg/kg	161	Adopted	2008
01.6.5	Cheese analogues	33 mg/kg	161	Adopted	2008
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	100 mg/kg	161	Adopted	2007
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	10 mg/kg	161	Adopted	2008
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	100 mg/kg	161	Adopted	2007
03.0	Edible ices, including sherbet and sorbet	100 mg/kg	161	Adopted	2007
04.1.2.1	Frozen fruit	100 mg/kg	161	Adopted	2008
04.1.2.2	Dried fruit	100 mg/kg	161	Adopted	2008
04.1.2.3	Fruit in vinegar, oil, or brine	100 mg/kg	161	Adopted	2007
04.1.2.4	Canned or bottled (pasteurized) fruit	33 mg/kg	161	Adopted	2007
04.1.2.5	Jams, jellies, marmelades	70 mg/kg	161	Adopted	2007
04.1.2.6	Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5	70 mg/kg	161	Adopted	2007
04.1.2.7	Candied fruit	65 mg/kg	161	Adopted	2007
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	100 mg/kg	161	Adopted	2007
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	100 mg/kg	161	Adopted	2007
04.1.2.10	Fermented fruit products	65 mg/kg	161	Adopted	2007
04.1.2.11	Fruit fillings for pastries	100 mg/kg	161	Adopted	2007
04.1.2.12	Cooked fruit	65 mg/kg	161	Adopted	2007
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	33 mg/kg	161	Adopted	2008
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	33 mg/kg	161	Adopted	2008

NEOTAME

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	10 mg/kg	144	Adopted	2007
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	33 mg/kg	161	Adopted	2008
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g., peanut butter)	33 mg/kg	161	Adopted	2008
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	33 mg/kg	161	Adopted	2007
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	33 mg/kg	161	Adopted	2007
04.2.2.8	Cooked or fried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	33 mg/kg	161	Adopted	2008
05.1.2	Cocoa mixes (syrops)	33 mg/kg	97 & 161	Adopted	2007
05.1.3	Cocoa-based spreads, including fillings	100 mg/kg	161	Adopted	2007
05.1.4	Cocoa and chocolate products	80 mg/kg	161	Adopted	2007
05.1.5	Imitation chocolate, chocolate substitute products	100 mg/kg	161	Adopted	2007
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	330 mg/kg	158 & 161	Adopted	2007
05.3	Chewing gum	1000 mg/kg	161	Adopted	2007
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	100 mg/kg	161	Adopted	2007
06.3	Breakfast cereals, including rolled oats	160 mg/kg	161	Adopted	2007
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	33 mg/kg	161	Adopted	2007
07.1	Bread and ordinary bakery wares	70 mg/kg	161	Adopted	2008
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	80 mg/kg	161 & 165	Adopted	2008
09.3	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms	10 mg/kg	161	Adopted	2008
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	10 mg/kg	161	Adopted	2008
10.4	Egg-based desserts (e.g., custard)	100 mg/kg	161	Adopted	2007
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	70 mg/kg	159	Adopted	2007
11.6	Table-top sweeteners, including those containing high-intensity sweeteners	GMP		Adopted	2007
12.2	Herbs, spices, seasonings and condiments (e.g., seasoning for instant noodles)	32 mg/kg	161	Adopted	2008
12.3	Vinegars	12 mg/kg	161	Adopted	2008
12.4	Mustards	12 mg/kg		Adopted	2007
12.5	Soups and broths	20 mg/kg	161	Adopted	2007

NEOTAME

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
12.6.1	Emulsified sauces and dips (e.g., mayonnaise, salad dressing, onion dip)	65 mg/kg		Adopted	2007
12.6.2	Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy)	70 mg/kg		Adopted	2007
12.6.3	Mixes for sauces and gravies	12 mg/kg		Adopted	2007
12.6.4	Clear sauces (e.g., fish sauce)	12 mg/kg		Adopted	2007
12.7	Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	33 mg/kg	161 & 166	Adopted	2007
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	33 mg/kg		Adopted	2007
13.4	Dietetic formulae for slimming purposes and weight reduction	33 mg/kg		Adopted	2007
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	65 mg/kg		Adopted	2007
13.6	Food supplements	90 mg/kg		Adopted	2007
14.1.3.2	Vegetable nectar	65 mg/kg	161	Adopted	2007
14.1.3.4	Concentrates for vegetable nectar	65 mg/kg	127 & 161	Adopted	2007
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	33 mg/kg	161	Adopted	2007
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	50 mg/kg	160	Adopted	2007
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	33 mg/kg		Adopted	2007
15.0	Ready-to-eat savouries	32 mg/kg		Adopted	2007

NISIN

INS 234

Nisin

Functional Class: Preservative

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	12.5 mg/kg	28 & 233	3	
01.4	Cream (plain) and the like	12.5 mg/kg	28 & 233	3	
01.4.3	Clotted cream (plain)	10 mg/kg	28	Adopted	2009
01.6.1	Unripened cheese	12.5 mg/kg	28 & 233	6	
01.6.2	Ripened cheese	12.5 mg/kg	28	Adopted	2009
01.6.4	Processed cheese	12.5 mg/kg	28 & 233	6	
01.6.5	Cheese analogues	12.5 mg/kg	28	Adopted	2010
01.6.6	Whey protein cheese	12.5 mg/kg	28	Adopted	2006
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	12.5 mg/kg	28 & 233	3	
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	6.25 mg/kg	28 & 233	6	

NISIN

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	3 mg/kg	28	Adopted	2010
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	6.25 mg/kg	28 & 233	6	
10.2.1	Liquid egg products	6.25 mg/kg	28 & 233	3	
12.5.1	Ready-to-eat soups and broths, including canned, bottled, and frozen	5 mg/kg	28 & 233	6	

NITRATES

INS 251 Sodium nitrate Functional Class: Colour retention agent, Preservative

INS 252 Potassium nitrate Functional Class: Colour retention agent, Preservative

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.6.1	Unripened cheese	40 mg/kg	30	7	
01.6.2	Ripened cheese	40 mg/kg	30	7	
01.6.4	Processed cheese	40 mg/kg	30	7	
01.6.5	Cheese analogues	40 mg/kg	30	7	
08.1	Fresh meat, poultry, and game	150 mg/kg	30	7	
08.2.1.1	Cured (including salted) non-heat treated processed meat, poultry, and game products in whole pieces or cuts	1600 mg/kg	30	7	
08.2.1.2	Cured (including salted) and dried non-heat treated processed meat, poultry, and game products in whole pieces or cuts	450 mg/kg	30	7	
08.2.1.3	Fermented non-heat treated processed meat, poultry, and game products in whole pieces or cuts	450 mg/kg	30	7	
08.2.2	Heat-treated processed meat, poultry, and game products in whole pieces or cuts	365 mg/kg	30	7	
08.2.3	Frozen processed meat, poultry, and game products in whole pieces or cuts	220 mg/kg	30	7	
08.3.1.1	Cured (including salted) non-heat treated processed comminuted meat, poultry, and game products	1250 mg/kg	30	7	
08.3.1.2	Cured (including salted) and dried non-heat treated processed comminuted meat, poultry, and game products	365 mg/kg	30	7	
08.3.1.3	Fermented non-heat treated processed comminuted meat, poultry, and game products	365 mg/kg	30	7	
08.3.2	Heat-treated processed comminuted meat, poultry, and game products	365 mg/kg	30	7	
08.3.3	Frozen processed comminuted meat, poultry, and game products	365 mg/kg	30	7	
08.4	Edible casings (e.g., sausage casings)	150 mg/kg	30	7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	150 mg/kg	30	7	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	365 mg/kg	22 & 30	7	
09.3	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms	220 mg/kg	30	7	
14.2.4	Wines (other than grape)	70 mg/kg	30 & 31	7	

NITRITES

NITRITES

INS 249 Potassium nitrite Functional Class: Colour retention agent, Preservative

INS 250 Sodium nitrite Functional Class: Colour retention agent, Preservative

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.6.1	Unripened cheese	20 mg/kg	32	7	
01.6.2	Ripened cheese	20 mg/kg	32	7	
01.6.4	Processed cheese	20 mg/kg	32	7	
01.6.5	Cheese analogues	20 mg/kg	32	7	
08.1	Fresh meat, poultry, and game	130 mg/kg	32	7	
08.2.1.1	Cured (including salted) non-heat treated processed meat, poultry, and game products in whole pieces or cuts	420 mg/kg	32	7	
08.2.1.2	Cured (including salted) and dried non-heat treated processed meat, poultry, and game products in whole pieces or cuts	300 mg/kg	32	7	
08.2.1.3	Fermented non-heat treated processed meat, poultry, and game products in whole pieces or cuts	130 mg/kg	32	7	
08.2.2	Heat-treated processed meat, poultry, and game products in whole pieces or cuts	170 mg/kg	32	7	
08.2.3	Frozen processed meat, poultry, and game products in whole pieces or cuts	170 mg/kg	32	7	
08.3	Processed comminuted meat, poultry, and game products	130 mg/kg	32	7	
08.4	Edible casings (e.g., sausage casings)	130 mg/kg	32	7	
09.2.4.1	Cooked fish and fish products	100 mg/kg	32	4	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	130 mg/kg	22 & 32	7	
09.3.3	Salmon substitutes, caviar, and other fish roe products	5 mg/kg	32	7	

NITROGEN

INS 941 Nitrogen Functional Class: Packaging gas, Propellant

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1	Milk and buttermilk (plain)	GMP	59	7	
01.2	Fermented and renneted milk products (plain), excluding food category 01.1.2 (dairy-based drinks)	GMP	59	7	
01.4.1	Pasteurized cream (plain)	GMP	59	7	
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	59	4	
02.1.2	Vegetable oils and fats	GMP	59	7	
02.1.3	Lard, tallow, fish oil, and other animal fats	GMP	59	7	
04.1.1	Fresh fruit	GMP	59	7	
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	59	7	

NITROGEN

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	59	7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	59	7	
13.1.1	Infant formulae	GMP	59	4	
13.1.3	Formulae for special medical purposes for infants	GMP	59	4	
13.2	Complementary foods for infants and young children	GMP	59	4	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	59	7	
14.2.3	Grape wines	GMP	59	7	

NITROUS OXIDE

INS 942

Nitrous oxide

Functional Class: Antioxidant, Foaming agent, Packaging gas, Propellant

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1	Milk and buttermilk (plain)	GMP		7	
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP		7	
01.4.1	Pasteurized cream (plain)	GMP		7	
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		7	
02.1.2	Vegetable oils and fats	GMP		7	
02.1.3	Lard, tallow, fish oil, and other animal fats	GMP		7	
04.1.1.1	Untreated fresh fruit	GMP		7	
04.1.1.3	Peeled or cut fresh fruit	GMP		7	
04.2.1.1	Untreated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes [(including soybeans)], and aloe vera), seaweeds, and nuts and seeds	GMP		7	
04.2.1.3	Peeled, cut or shredded fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
06.1	Whole, broken, or flaked grain, including rice	GMP		7	
06.2	Flours and starches (including soybean powder)	GMP		7	
06.4.2	Dried pastas and noodles and like products	GMP		7	
08.1	Fresh meat, poultry, and game	GMP		7	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
10.1	Fresh eggs	GMP		7	
10.2.1	Liquid egg products	GMP		7	

NITROUS OXIDE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
10.2.2	Frozen egg products	GMP		7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	GMP		7	
12.1.2	Salt Substitutes	GMP		7	
12.2	Herbs, spices, seasonings and condiments (e.g., seasoning for instant noodles)	GMP	51	7	
13.2	Complementary foods for infants and young children	GMP		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		7	

ORTHO-PHENYLPHENOLS

INS 231 ortho-Phenylphenol Functional Class: Preservative

INS 232 Sodium ortho-phenylphenol Functional Class: Preservative

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.1.1.2	Surface-treated fresh fruit	12 mg/kg	49	Adopted	1999

OXIDIZED STARCH

INS 1404 Oxidized starch Functional Class: Emulsifier, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1.2	Buttermilk (plain)	GMP		7	
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235	Adopted	2013
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.2.2	Renneted milk (plain)	GMP		Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	236	Adopted	2013
04.1.1.2	Surface-treated fresh fruit	GMP	16	7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	16	7	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP	16	7	
08.1.2	Fresh meat, poultry, and game, comminuted	GMP		7	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41	7	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	

OXIDIZED STARCH

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	10000 mg/kg		7	
12.1.2	Salt Substitutes	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	
13.2	Complementary foods for infants and young children	50000 mg/kg		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	10000 mg/kg		7	

PAPAIN

INS 1101(ii) Papain Functional Class: Flavour enhancer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
06.1	Whole, broken, or flaked grain, including rice	1000 mg/kg		7	
06.2.1	Flours	GMP		7	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP		7	
14.2.3	Grape wines	GMP		7	

PECTINS

INS 440 Pectins Functional Class: Emulsifier, Gelling agent, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1	Milk and buttermilk (plain)	GMP		7	
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235	Adopted	2013
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.2.2	Renneted milk (plain)	GMP		Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
02.1.2	Vegetable oils and fats	GMP		7	
02.1.3	Lard, tallow, fish oil, and other animal fats	GMP		7	
04.1.1.2	Surface-treated fresh fruit	GMP		7	
04.1.1.3	Peeled or cut fresh fruit	GMP		7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
04.2.1.3	Peeled, cut or shredded fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	

PECTINS

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	20000 mg/kg		7	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP		Adopted	2013
06.4.1	Fresh pastas and noodles and like products	GMP		4	
06.4.2	Dried pastas and noodles and like products	GMP		7	
08.1	Fresh meat, poultry, and game	GMP		7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	20000 mg/kg	16	7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41 & 61	7	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
10.2.1	Liquid egg products	GMP		7	
10.2.2	Frozen egg products	GMP		7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	GMP		7	
12.1.2	Salt Substitutes	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	
13.1.2	Follow-up formulae	10000 mg/kg	72	7	
13.2	Complementary foods for infants and young children	20000 mg/kg		7	
14.1.2.1	Fruit juice	GMP	35	Adopted	2005
14.1.2.3	Concentrates for fruit juice	GMP	35 & 127	Adopted	2005
14.1.3.1	Fruit nectar	GMP		Adopted	2005
14.1.3.2	Vegetable nectar	3000 mg/kg		4	
14.1.3.3	Concentrates for fruit nectar	GMP	127	Adopted	2005
14.1.3.4	Concentrates for vegetable nectar	3000 mg/kg		4	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		7	
14.2.3	Grape wines	GMP		7	

PHOSPHATED DISTARCH PHOSPHATE

INS 1413 Phosphated distarch phosphate Functional Class: Emulsifier, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235	Adopted	2013

PHOSPHATED DISTARCH PHOSPHATE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.2.2	Renneted milk (plain)	GMP		Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
06.4.1	Fresh pastas and noodles and like products	200 mg/kg		4	
06.4.2	Dried pastas and noodles and like products	200 mg/kg		4	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41	7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	10000 mg/kg		7	
13.1.1	Infant formulae	5000 mg/kg	72 & 150	7	
13.1.2	Follow-up formulae	5000 mg/kg	72 & 150	7	
13.1.3	Formulae for special medical purposes for infants	5000 mg/kg	72 & 150	4	
13.2	Complementary foods for infants and young children	60000 mg/kg		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	10000 mg/kg		7	

PHOSPHATES

PHOSPHATES

INS 338	Phosphoric acid	Functional Class: Acidity regulator, Antioxidant, Sequestrant
INS 339(i)	Sodium dihydrogen phosphate	Functional Class: Acidity regulator, Emulsifier, Humectant, Raising agent, Sequestrant, Stabilizer, Thickener
INS 339(ii)	Disodium hydrogen phosphate	Functional Class: Acidity regulator, Emulsifier, Humectant, Sequestrant, Stabilizer, Thickener
INS 339(iii)	Trisodium phosphate	Functional Class: Acidity regulator, Emulsifier, Humectant, Preservative, Sequestrant, Stabilizer, Thickener
INS 340(i)	Potassium dihydrogen phosphate	Functional Class: Acidity regulator, Emulsifier, Humectant, Sequestrant, Stabilizer, Thickener
INS 340(ii)	Dipotassium hydrogen phosphate	Functional Class: Acidity regulator, Emulsifier, Humectant, Sequestrant, Stabilizer, Thickener
INS 340(iii)	Tripotassium phosphate	Functional Class: Acidity regulator, Anticaking agent, Firming agent, Flour treatment agent, Humectant, Raising agent, Sequestrant, Stabilizer, Thickener
INS 341(i)	Calcium dihydrogen phosphate	Functional Class: Acidity regulator, Anticaking agent, Firming agent, Flour treatment agent, Humectant, Raising agent, Sequestrant, Stabilizer, Thickener
INS 341(ii)	Calcium hydrogen phosphate	Functional Class: Acidity regulator, Anticaking agent, Firming agent, Flour treatment agent, Humectant, Raising agent, Stabilizer, Thickener
INS 341(iii)	Tricalcium phosphate	Functional Class: Acidity regulator, Anticaking agent, Emulsifier, Firming agent, Flour treatment agent, Humectant, Raising agent, Stabilizer, Thickener
INS 342(i)	Ammonium dihydrogen phosphate	Functional Class: Acidity regulator, Flour treatment agent
INS 342(ii)	Diammonium hydrogen phosphate	Functional Class: Acidity regulator, Flour treatment agent
INS 343(i)	Magnesium dihydrogen phosphate	Functional Class: Acidity regulator, Anticaking agent
INS 343(ii)	Magnesium hydrogen phosphate	Functional Class: Acidity regulator, Anticaking agent
INS 343(iii)	Trimagnesium phosphate	Functional Class: Acidity regulator, Anticaking agent
INS 450(i)	Disodium diphosphate	Functional Class: Acidity regulator, Emulsifier, Humectant, Raising agent, Sequestrant, Stabilizer, Thickener
INS 450(ii)	Trisodium diphosphate	Functional Class: Acidity regulator, Emulsifier, Humectant, Raising agent, Sequestrant, Stabilizer, Thickener
INS 450(iii)	Tetrasodium diphosphate	Functional Class: Acidity regulator, Emulsifier, Humectant, Raising agent, Sequestrant, Stabilizer, Thickener
INS 450(v)	Tetrapotassium diphosphate	Functional Class: Acidity regulator, Emulsifier, Humectant, Raising agent, Sequestrant, Stabilizer, Thickener
INS 450(vi)	Dicalcium diphosphate	Functional Class: Acidity regulator, Emulsifier, Firming agent, Raising agent, Sequestrant, Stabilizer, Thickener
INS 450(vii)	Calcium dihydrogen diphosphate	Functional Class: Acidity regulator, Emulsifier, Humectant, Raising agent, Sequestrant, Stabilizer
INS 451(i)	Pentasodium triphosphate	Functional Class: Acidity regulator, Emulsifier, Humectant, Sequestrant, Stabilizer, Thickener
INS 451(ii)	Pentapotassium triphosphate	Functional Class: Acidity regulator, Emulsifier, Humectant, Sequestrant, Stabilizer, Thickener
INS 452(i)	Sodium polyphosphate	Functional Class: Acidity regulator, Emulsifier, Humectant, Raising agent, Sequestrant, Stabilizer, Thickener
INS 452(ii)	Potassium polyphosphate	Functional Class: Acidity regulator, Emulsifier, Humectant, Raising agent, Sequestrant, Stabilizer, Thickener
INS 452(iii)	Sodium calcium polyphosphate	Functional Class: Acidity regulator, Emulsifier, Humectant, Raising agent, Sequestrant, Stabilizer

PHOSPHATES

INS 452(iv)	Calcium polyphosphate	Functional Class: Acidity regulator, Emulsifier, Humectant, Raising agent, Sequestrant, Stabilizer, Thickener
INS 452(v)	Ammonium polyphosphate	Functional Class: Emulsifier, Humectant, Sequestrant, Stabilizer, Thickener
INS 542	Bone phosphate	Functional Class: Anticaking agent, Emulsifier, Humectant

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1	Milk and buttermilk (plain)	1500 mg/kg	33 & 227	Adopted	2012
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	1320 mg/kg	33	Adopted	2012
01.2	Fermented and renneted milk products (plain), excluding food category 01.1.2 (dairy-based drinks)	1000 mg/kg	33	Adopted	2010
01.3.1	Condensed milk (plain)	880 mg/kg	33	Adopted	2012
01.3.2	Beverage whiteners	13000 mg/kg	33	Adopted	2012
01.4	Cream (plain) and the like	2200 mg/kg	33	Adopted	2012
01.5.1	Milk powder and cream powder (plain)	4400 mg/kg	33	Adopted	2012
01.5.2	Milk and cream powder analogues	4400 mg/kg	33 & 88	Adopted	2009
01.6.1	Unripened cheese	4400 mg/kg	33	Adopted	2012
01.6.4	Processed cheese	9000 mg/kg	33	Adopted	2012
01.6.5	Cheese analogues	9000 mg/kg	33	Adopted	2012
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	1500 mg/kg	33	Adopted	2012
01.8.1	Liquid whey and whey products, excluding whey cheeses	880 mg/kg	33 & 228	Adopted	2012
01.8.2	Dried whey and whey products, excluding whey cheeses	4400 mg/kg	33	Adopted	2006
02.2.1	Butter	880 mg/kg	33 & 34	Adopted	2008
02.2.2	Fat spreads, dairy fat spreads and blended spreads	2200 mg/kg	33	Adopted	2009
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	2200 mg/kg	33	Adopted	2009
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	1500 mg/kg	33	Adopted	2012
03.0	Edible ices, including sherbet and sorbet	7500 mg/kg	33	Adopted	2012
04.1.2.3	Fruit in vinegar, oil, or brine	2200 mg/kg	33	Adopted	2012
04.1.2.6	Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5	1100 mg/kg	33	Adopted	2009
04.1.2.7	Candied fruit	10 mg/kg	33	Adopted	2012
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	350 mg/kg	33	Adopted	2012
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	1500 mg/kg	33	Adopted	2012
04.1.2.10	Fermented fruit products	2200 mg/kg	33	Adopted	2009
04.1.2.11	Fruit fillings for pastries	1500 mg/kg	33	Adopted	2012
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	1760 mg/kg	16 & 33	Adopted	2009

PHOSPHATES

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.1.3	Peeled, cut or shredded fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	5600 mg/kg	33 & 76	Adopted	2012
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	5000 mg/kg	33 & 76	Adopted	2012
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	5000 mg/kg	33 & 76	Adopted	2012
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	2200 mg/kg	33	Adopted	2012
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	2200 mg/kg	33	Adopted	2012
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g., peanut butter)	2200 mg/kg	33 & 76	Adopted	2012
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	2200 mg/kg	33	Adopted	2012
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	2200 mg/kg	33	Adopted	2010
04.2.2.8	Cooked or fried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	2200 mg/kg	33 & 76	Adopted	2012
05.1.1	Cocoa mixes (powders) and cocoa mass/cake	1100 mg/kg	33	Adopted	2012
05.1.3	Cocoa-based spreads, including fillings	880 mg/kg	33	Adopted	2012
05.1.4	Cocoa and chocolate products	1100 mg/kg	33	Adopted	2012
05.1.5	Imitation chocolate, chocolate substitute products	2200 mg/kg	33	Adopted	2009
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	2200 mg/kg	33	Adopted	2012
05.3	Chewing gum	44000 mg/kg	33	Adopted	2012
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	1500 mg/kg	33	Adopted	2012
06.2.1	Flours	2500 mg/kg	33 & 225	Adopted	2012
06.3	Breakfast cereals, including rolled oats	2200 mg/kg	33	Adopted	2009
06.4.1	Fresh pastas and noodles and like products	2500 mg/kg	33 & 211	Adopted	2012
06.4.2	Dried pastas and noodles and like products	900 mg/kg	33 & 211	Adopted	2012
06.4.3	Pre-cooked pastas and noodles and like products	2500 mg/kg	33 & 211	Adopted	2012
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	7000 mg/kg	33	Adopted	2012
06.6	Batters (e.g., for breading or batters for fish or poultry)	5600 mg/kg	33	Adopted	2012
06.8.1	Soybean-based beverages	1300 mg/kg	33	Adopted	2012
06.8.3	Soybean curd (tofu)	100 mg/kg	33	Adopted	2012

PHOSPHATES

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
07.1.1.2	Soda breads	9300 mg/kg	33 & 229	Adopted	2012
07.1.2	Crackers, excluding sweet crackers	9300 mg/kg	33 & 229	Adopted	2012
07.1.3	Other ordinary bakery products (e.g., bagels, pita, English muffins)	9300 mg/kg	33 & 229	Adopted	2012
07.1.4	Bread-type products, including bread stuffing and bread crumbs	9300 mg/kg	33 & 229	Adopted	2012
07.1.5	Steamed breads and buns	9300 mg/kg	33 & 229	Adopted	2012
07.1.6	Mixes for bread and ordinary bakery wares	9300 mg/kg	33 & 229	Adopted	2012
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	9300 mg/kg	33 & 229	Adopted	2012
08.2.1	Non-heat treated processed meat, poultry, and game products in whole pieces or cuts	2200 mg/kg	33	Adopted	2012
08.2.2	Heat-treated processed meat, poultry, and game products in whole pieces or cuts	3100 mg/kg	33	6	
08.2.3	Frozen processed meat, poultry, and game products in whole pieces or cuts	2200 mg/kg	33	Adopted	2009
08.3	Processed comminuted meat, poultry, and game products	2200 mg/kg	33	Adopted	2009
08.4	Edible casings (e.g., sausage casings)	1100 mg/kg	33	Adopted	2010
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	2200 mg/kg	33	Adopted	2012
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	2200 mg/kg	33	Adopted	2012
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	2200 mg/kg	33	Adopted	2012
09.2.4.1	Cooked fish and fish products	2200 mg/kg	33	Adopted	2012
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	2200 mg/kg	33	Adopted	2012
09.3.1	Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly	2200 mg/kg	33	Adopted	2012
09.3.2	Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine	2200 mg/kg	33	Adopted	2012
09.3.3	Salmon substitutes, caviar, and other fish roe products	2200 mg/kg	33	Adopted	2012
09.3.4	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3	2200 mg/kg	33 & 193	Adopted	2010
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	2200 mg/kg	33	Adopted	2012
10.2.1	Liquid egg products	4400 mg/kg	33 & 67	Adopted	2009
10.2.2	Frozen egg products	1290 mg/kg	33	Adopted	2009
10.3	Preserved eggs, including alkaline, salted, and canned eggs	1000 mg/kg	33	Adopted	2012
10.4	Egg-based desserts (e.g., custard)	1400 mg/kg	33	Adopted	2012
11.1.2	Powdered sugar, powdered dextrose	6600 mg/kg	33 & 56	Adopted	2006
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	1320 mg/kg	33	Adopted	2009
11.6	Table-top sweeteners, including those containing high-intensity sweeteners	1000 mg/kg	33	Adopted	2009
12.1.1	Salt	8800 mg/kg	33	Adopted	2006

PHOSPHATES

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
12.1.2	Salt Substitutes	4400 mg/kg	33	Adopted	2012
12.2.2	Seasonings and condiments	2200 mg/kg	33 & 226	Adopted	2012
12.5	Soups and broths	1500 mg/kg	33 & 127	Adopted	2012
12.6	Sauces and like products	2200 mg/kg	33	Adopted	2012
12.9	Soybean-based seasonings and condiments	1200 mg/kg	33	Adopted	2012
13.2	Complementary foods for infants and young children	4400 mg/kg	33 & 230	Adopted	2012
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	2200 mg/kg	33	Adopted	2009
13.4	Dietetic formulae for slimming purposes and weight reduction	2200 mg/kg	33	Adopted	2009
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	2200 mg/kg	33	Adopted	2009
13.6	Food supplements	2200 mg/kg	33	Adopted	2010
14.1.2.1	Fruit juice	1000 mg/kg	33, 40 & 122	Adopted	2005
14.1.2.2	Vegetable juice	1000 mg/kg	33	7	
14.1.2.3	Concentrates for fruit juice	1000 mg/kg	33, 40, 122 & 127	Adopted	2005
14.1.2.4	Concentrates for vegetable juice	1000 mg/kg	33 & 127	7	
14.1.3.1	Fruit nectar	1000 mg/kg	33, 40 & 122	Adopted	2005
14.1.3.2	Vegetable nectar	1000 mg/kg	33	7	
14.1.3.3	Concentrates for fruit nectar	1000 mg/kg	33, 40, 122 & 127	Adopted	2005
14.1.3.4	Concentrates for vegetable nectar	1000 mg/kg	33 & 127	7	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	1000 mg/kg	33	Adopted	2012
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	300 mg/kg	33 & 160	Adopted	2012
14.2.2	Cider and perry	880 mg/kg	33	Adopted	2010
14.2.5	Mead	440 mg/kg	33 & 88	Adopted	2009
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	440 mg/kg	33 & 88	Adopted	2009
15.0	Ready-to-eat savouries	2200 mg/kg	33	Adopted	2009

POLYDEXTROSES

INS 1200

Polydextroses

Functional Class: Bulking agent, Glazing agent, Humectant, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1	Milk and buttermilk (plain)	GMP		7	
01.2	Fermented and renneted milk products (plain), excluding food category 01.1.2 (dairy-based drinks)	GMP		7	
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	236	Adopted	2013

POLYDEXTROSES

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
10.2.1	Liquid egg products	GMP		7	
10.2.2	Frozen egg products	GMP		7	
11.2	Brown sugar excluding products of food category 11.1.3	GMP		7	
11.3	Sugar solutions and syrups, also (partially) inverted, including treacle and molasses, excluding products of food category 11.1.3	GMP		7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	

POLYDIMETHYLSILOXANE

INS 900a

Polydimethylsiloxane

Functional Class: Anticaking agent, Antifoaming agent, Emulsifier

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.5.1	Milk powder and cream powder (plain)	10 mg/kg		Adopted	1999
02.1.2	Vegetable oils and fats	10 mg/kg		Adopted	2006
02.1.3	Lard, tallow, fish oil, and other animal fats	10 mg/kg		Adopted	2006
02.2.2	Fat spreads, dairy fat spreads and blended spreads	10 mg/kg	152	Adopted	2007
04.1.2.3	Fruit in vinegar, oil, or brine	10 mg/kg		Adopted	1999
04.1.2.4	Canned or bottled (pasteurized) fruit	10 mg/kg		Adopted	1999
04.1.2.5	Jams, jellies, marmelades	30 mg/kg		Adopted	1999
04.1.2.6	Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5	10 mg/kg		Adopted	1999
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	110 mg/kg		Adopted	1999
04.1.2.10	Fermented fruit products	10 mg/kg		Adopted	2008
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	10 mg/kg	15	Adopted	1999
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	10 mg/kg		Adopted	1999
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	10 mg/kg		Adopted	1999
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g., peanut butter)	10 mg/kg		Adopted	1999
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	50 mg/kg		Adopted	2004

POLYDIMETHYLSILOXANE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	10 mg/kg		Adopted	2008
05.1.5	Imitation chocolate, chocolate substitute products	10 mg/kg		Adopted	1999
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	10 mg/kg		Adopted	1999
05.3	Chewing gum	100 mg/kg		Adopted	1999
06.4.3	Pre-cooked pastas and noodles and like products	50 mg/kg	153	Adopted	2007
06.6	Batters (e.g., for breading or batters for fish or poultry)	10 mg/kg		Adopted	1999
06.8.1	Soybean-based beverages	50 mg/kg		4	
06.8.2	Soybean-based beverage film	50 mg/kg		4	
06.8.3	Soybean curd (tofu)	50 mg/kg		4	
12.5	Soups and broths	10 mg/kg		Adopted	1999
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	50 mg/kg		Adopted	2004
13.4	Dietetic formulae for slimming purposes and weight reduction	50 mg/kg		Adopted	2004
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	50 mg/kg		Adopted	2004
13.6	Food supplements	50 mg/kg		Adopted	2004
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	20 mg/kg		Adopted	1999
14.2.1	Beer and malt beverages	10 mg/kg		Adopted	1999
14.2.2	Cider and perry	10 mg/kg		Adopted	1999
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	10 mg/kg		Adopted	1999

POLYETHYLENE GLYCOL

INS 1521

Polyethylene glycol

Functional Class: Antifoaming agent, Carrier, Emulsifier, Glazing agent, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.1.1.2	Surface-treated fresh fruit	GMP		Adopted	2001
05.3	Chewing gum	20000 mg/kg		Adopted	2001
11.6	Table-top sweeteners, including those containing high-intensity sweeteners	10000 mg/kg		Adopted	2001
13.6	Food supplements	70000 mg/kg		Adopted	2001
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	1000 mg/kg		Adopted	2001

POLYGLYCEROL ESTERS OF FATTY ACIDS

POLYGLYCEROL ESTERS OF FATTY ACIDS

INS 475 Polyglycerol esters of fatty acids Functional Class: Emulsifier

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	5000 mg/kg		7	
01.2.1	Fermented milks (plain)	30000 mg/kg		7	
01.3.2	Beverage whiteners	5000 mg/kg		7	
01.4	Cream (plain) and the like	10000 mg/kg		7	
01.5	Milk powder and cream powder and powder analogues (plain)	10000 mg/kg		7	
01.6.4	Processed cheese	10000 mg/kg		7	
01.6.5	Cheese analogues	5000 mg/kg		7	
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	10000 mg/kg		7	
02.1.2	Vegetable oils and fats	20000 mg/kg		7	
02.1.3	Lard, tallow, fish oil, and other animal fats	20000 mg/kg		7	
02.2.2	Fat spreads, dairy fat spreads and blended spreads	20000 mg/kg		7	
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	20000 mg/kg		7	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	20000 mg/kg		7	
03.0	Edible ices, including sherbet and sorbet	10000 mg/kg		7	
04.1.1.2	Surface-treated fresh fruit	1000 mg/kg		7	
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	5000 mg/kg		7	
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	9000 mg/kg		7	
04.1.2.11	Fruit fillings for pastries	5000 mg/kg		7	
04.2.1.3	Peeled, cut or shredded fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	3000 mg/kg		7	
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	5000 mg/kg		7	
05.1.1	Cocoa mixes (powders) and cocoa mass/cake	9000 mg/kg		7	
05.1.4	Cocoa and chocolate products	10000 mg/kg		7	
05.1.5	Imitation chocolate, chocolate substitute products	10000 mg/kg		7	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	5000 mg/kg		7	
05.3	Chewing gum	20000 mg/kg		7	
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	10000 mg/kg		7	

POLYGLYCEROL ESTERS OF FATTY ACIDS

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
06.1	Whole, broken, or flaked grain, including rice	10000 mg/kg		7	
06.2	Flours and starches (including soybean powder)	10000 mg/kg		7	
06.3	Breakfast cereals, including rolled oats	10000 mg/kg		7	
06.4.2	Dried pastas and noodles and like products	20000 mg/kg		7	
06.4.3	Pre-cooked pastas and noodles and like products	20000 mg/kg		7	
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	9000 mg/kg		7	
06.6	Batters (e.g., for breading or batters for fish or poultry)	10000 mg/kg		7	
07.1.1	Breads and rolls	10000 mg/kg		7	
07.1.2	Crackers, excluding sweet crackers	6000 mg/kg		7	
07.1.3	Other ordinary bakery products (e.g., bagels, pita, English muffins)	6000 mg/kg		7	
07.1.4	Bread-type products, including bread stuffing and bread crumbs	10000 mg/kg		7	
07.1.5	Steamed breads and buns	6000 mg/kg		7	
07.1.6	Mixes for bread and ordinary bakery wares	6000 mg/kg		7	
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	10000 mg/kg		7	
08.0	Meat and meat products, including poultry and game	5000 mg/kg		7	
09.0	Fish and fish products, including mollusks, crustaceans, and echinoderms	10000 mg/kg		7	
10.2	Egg products	5000 mg/kg		7	
10.4	Egg-based desserts (e.g., custard)	9000 mg/kg		7	
12.5.1	Ready-to-eat soups and broths, including canned, bottled, and frozen	5000 mg/kg		7	
12.5.2	Mixes for soups and broths	9000 mg/kg	127	7	
12.6	Sauces and like products	10000 mg/kg		4	
12.6.1	Emulsified sauces and dips (e.g., mayonnaise, salad dressing, onion dip)	GMP		7	
12.6.2	Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy)	10000 mg/kg		7	
12.6.3	Mixes for sauces and gravies	10000 mg/kg		7	
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	5000 mg/kg		7	
13.4	Dietetic formulae for slimming purposes and weight reduction	5000 mg/kg		7	
13.6	Food supplements	50000 mg/kg		4	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	9000 mg/kg		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	5000 mg/kg		7	
14.2.1	Beer and malt beverages	500 mg/kg		7	
14.2.2	Cider and perry	5000 mg/kg		7	
14.2.3	Grape wines	500 mg/kg		7	

POLYGLYCEROL ESTERS OF FATTY ACIDS

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
14.2.4	Wines (other than grape)	500 mg/kg		7	
14.2.5	Mead	500 mg/kg		7	
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	5000 mg/kg		7	
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	5000 mg/kg		7	
15.0	Ready-to-eat savouries	10000 mg/kg		7	

POLYGLYCEROL ESTERS OF INTERESTERIFIED RICINOLEIC ACID

INS 476 Polyglycerol esters of interesterified ricinoleic acid Functional Class: Emulsifier

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.4	Cream (plain) and the like	5000 mg/kg		7	
01.5	Milk powder and cream powder and powder analogues (plain)	10000 mg/kg		7	
01.6.4	Processed cheese	5000 mg/kg		7	
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	5000 mg/kg		7	
02.1.2	Vegetable oils and fats	10000 mg/kg		7	
02.1.3	Lard, tallow, fish oil, and other animal fats	10000 mg/kg		7	
02.2.2	Fat spreads, dairy fat spreads and blended spreads	10000 mg/kg		7	
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	20000 mg/kg		7	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	10000 mg/kg		7	
03.0	Edible ices, including sherbet and sorbet	10000 mg/kg		7	
04.1.1.2	Surface-treated fresh fruit	1000 mg/kg		7	
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	5000 mg/kg		7	
04.1.2.11	Fruit fillings for pastries	5000 mg/kg		7	
05.1.1	Cocoa mixes (powders) and cocoa mass/cake	5000 mg/kg	97	4	
05.1.4	Cocoa and chocolate products	5000 mg/kg		7	
05.1.5	Imitation chocolate, chocolate substitute products	5000 mg/kg		7	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	3000 mg/kg		7	
05.3	Chewing gum	20000 mg/kg		7	
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	5000 mg/kg		7	
06.0	Cereals and cereal products, derived from cereal grains, from roots and tubers, pulses, legumes and pith or soft core of palm tree, excluding bakery wares of food category 07.0	5000 mg/kg		7	
07.0	Bakery wares	5000 mg/kg		7	
08.0	Meat and meat products, including poultry and game	5000 mg/kg		7	

POLYGLYCEROL ESTERS OF INTERESTERIFIED RICINOLEIC ACID

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
09.0	Fish and fish products, including mollusks, crustaceans, and echinoderms	5000 mg/kg		7	
10.2	Egg products	5000 mg/kg		7	
10.4	Egg-based desserts (e.g., custard)	5000 mg/kg		7	
12.5	Soups and broths	5000 mg/kg		7	
12.6	Sauces and like products	5000 mg/kg		7	
12.7	Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	4000 mg/kg		7	
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	5000 mg/kg		7	
13.4	Dietetic formulae for slimming purposes and weight reduction	5000 mg/kg		7	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	5000 mg/kg		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	5000 mg/kg		7	
14.2.1	Beer and malt beverages	1000 mg/kg		7	
14.2.2	Cider and perry	1000 mg/kg		7	
14.2.3	Grape wines	1000 mg/kg		7	
14.2.4	Wines (other than grape)	1000 mg/kg		7	
15.0	Ready-to-eat savouries	1000 mg/kg		7	

POLYOXYETHYLENE STEARATES

INS 430 Polyoxyethylene (8) stearate Functional Class: Emulsifier

INS 431 Polyoxyethylene (40) stearate Functional Class: Emulsifier

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
02.1.2	Vegetable oils and fats	5000 mg/kg		7	
02.1.3	Lard, tallow, fish oil, and other animal fats	5000 mg/kg		7	
05.3	Chewing gum	20000 mg/kg		7	
06.4.3	Pre-cooked pastas and noodles and like products	5000 mg/kg	2	4	
07.1	Bread and ordinary bakery wares	5000 mg/kg		7	
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	4000 mg/kg		7	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	500 mg/kg		7	
14.2.3	Grape wines	GMP		7	

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INS 432	Polyoxyethylene (20) sorbitan monolaurate	Functional Class: Emulsifier, Stabilizer
INS 433	Polyoxyethylene (20) sorbitan monooleate	Functional Class: Emulsifier, Stabilizer
INS 434	Polyoxyethylene (20) sorbitan monopalmitate	Functional Class: Emulsifier
INS 435	Polyoxyethylene (20) sorbitan monostearate	Functional Class: Emulsifier, Stabilizer
INS 436	Polyoxyethylene (20) sorbitan tristearate	Functional Class: Emulsifier, Stabilizer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, egnog, drinking yoghurt, whey-based drinks)	3000 mg/kg		Adopted	2008
01.3.2	Beverage whiteners	4000 mg/kg		Adopted	2007
01.4.1	Pasteurized cream (plain)	1000 mg/kg		Adopted	2008
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	1000 mg/kg		Adopted	2008
01.4.3	Clotted cream (plain)	1000 mg/kg		Adopted	2008
01.4.4	Cream analogues	5000 mg/kg		Adopted	2005
01.5.2	Milk and cream powder analogues	4000 mg/kg		Adopted	2007
01.6.1	Unripened cheese	80 mg/kg	38	Adopted	2008
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	3000 mg/kg		Adopted	2007
02.1.2	Vegetable oils and fats	5000 mg/kg	102	Adopted	2007
02.1.3	Lard, tallow, fish oil, and other animal fats	5000 mg/kg	102	Adopted	2007
02.2.2	Fat spreads, dairy fat spreads and blended spreads	5000 mg/kg	102	Adopted	2007
02.2.2	Fat spreads, dairy fat spreads and blended spreads	10000 mg/kg		3	
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	5000 mg/kg	102	Adopted	2007
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	3000 mg/kg	102	Adopted	2007
03.0	Edible ices, including sherbet and sorbet	1000 mg/kg		Adopted	2005
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	1000 mg/kg	154	Adopted	2007
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	3000 mg/kg		Adopted	2007
04.1.2.11	Fruit fillings for pastries	3000 mg/kg		Adopted	2007
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	3000 mg/kg		Adopted	2007
05.1.2	Cocoa mixes (syrups)	500 mg/kg		Adopted	2007
05.1.3	Cocoa-based spreads, including fillings	1000 mg/kg		Adopted	2007

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FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
05.1.4	Cocoa and chocolate products	5000 mg/kg	101	Adopted	2007
05.1.5	Imitation chocolate, chocolate substitute products	5000 mg/kg		Adopted	2007
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	1000 mg/kg		Adopted	2007
05.3	Chewing gum	5000 mg/kg		Adopted	2007
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	3000 mg/kg		Adopted	2007
06.4.2	Dried pastas and noodles and like products	5000 mg/kg		Adopted	2008
06.4.3	Pre-cooked pastas and noodles and like products	5000 mg/kg	153	Adopted	2007
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	3000 mg/kg		Adopted	2005
06.6	Batters (e.g., for breading or batters for fish or poultry)	5000 mg/kg	2	Adopted	2007
07.1.1	Breads and rolls	3000 mg/kg		Adopted	2008
07.1.2	Crackers, excluding sweet crackers	5000 mg/kg	11	Adopted	2008
07.1.3	Other ordinary bakery products (e.g., bagels, pita, English muffins)	3000 mg/kg	11	Adopted	2008
07.1.4	Bread-type products, including bread stuffing and bread crumbs	3000 mg/kg	11	Adopted	2008
07.1.5	Steamed breads and buns	3000 mg/kg	11	Adopted	2008
07.1.6	Mixes for bread and ordinary bakery wares	3000 mg/kg	11	Adopted	2008
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	3000 mg/kg		Adopted	2008
08.2	Processed meat, poultry, and game products in whole pieces or cuts	5000 mg/kg		Adopted	2007
08.3	Processed comminuted meat, poultry, and game products	5000 mg/kg		Adopted	2007
08.4	Edible casings (e.g., sausage casings)	1500 mg/kg		Adopted	2007
10.4	Egg-based desserts (e.g., custard)	3000 mg/kg		Adopted	2007
12.1.1	Salt	10 mg/kg		Adopted	2006
12.2.1	Herbs and spices	2000 mg/kg		Adopted	2008
12.2.2	Seasonings and condiments	5000 mg/kg		Adopted	2007
12.5	Soups and broths	1000 mg/kg		Adopted	2005
12.6.1	Emulsified sauces and dips (e.g., mayonnaise, salad dressing, onion dip)	3000 mg/kg		Adopted	2007
12.6.2	Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy)	5000 mg/kg		Adopted	2007
12.6.3	Mixes for sauces and gravies	5000 mg/kg	127	Adopted	2007
12.6.4	Clear sauces (e.g., fish sauce)	5000 mg/kg		Adopted	2007
12.7	Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	2000 mg/kg		Adopted	2007
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	1000 mg/kg		Adopted	2005
13.4	Dietetic formulae for slimming purposes and weight reduction	1000 mg/kg		Adopted	2005

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FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
13.6	Food supplements	25000 mg/kg		Adopted	2007
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	500 mg/kg	127	Adopted	2007
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	120 mg/kg		Adopted	2007
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	120 mg/kg		Adopted	2007

POLYVINYL ALCOHOL

INS 1203 Polyvinyl alcohol Functional Class: Glazing agent, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
13.6	Food supplements	45000 mg/kg		Adopted	2007

POLYVINYLPIRROLIDONE

INS 1201 Polyvinylpyrrolidone Functional Class: Emulsifier, Glazing agent, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.1.1.2	Surface-treated fresh fruit	GMP		Adopted	1999
05.3	Chewing gum	10000 mg/kg		Adopted	1999
11.6	Table-top sweeteners, including those containing high-intensity sweeteners	3000 mg/kg		Adopted	1999
12.3	Vinegars	40 mg/kg		Adopted	1999
13.6	Food supplements	GMP		Adopted	1999
14.1.4.3	Concentrates (liquid or solid) for water-based flavoured drinks	500 mg/kg		Adopted	1999
14.2.1	Beer and malt beverages	10 mg/kg	36	Adopted	1999
14.2.2	Cider and perry	2 mg/kg	36	Adopted	1999

PONCEAU 4R (COCHINEAL RED A)

INS 124 Ponceau 4R (Cochineal red A) Functional Class: Colour

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	150 mg/kg	52 & 161	Adopted	2008
01.6.1	Unripened cheese	100 mg/kg	3 & 161	Adopted	2008
01.6.2.2	Rind of ripened cheese	100 mg/kg		Adopted	2008
01.6.4.2	Flavoured processed cheese, including containing fruit, vegetables, meat, etc.	100 mg/kg		Adopted	2008
01.6.5	Cheese analogues	100 mg/kg	3	Adopted	2008

PONCEAU 4R (COCHINEAL RED A)

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	150 mg/kg	161	Adopted	2008
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	50 mg/kg		Adopted	2008
03.0	Edible ices, including sherbet and sorbet	50 mg/kg		Adopted	2008
04.1.2.4	Canned or bottled (pasteurized) fruit	300 mg/kg	161	Adopted	2008
04.1.2.5	Jams, jellies, marmelades	100 mg/kg	161	Adopted	2008
04.1.2.6	Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5	500 mg/kg	161	Adopted	2008
04.1.2.7	Candied fruit	200 mg/kg	161	Adopted	2008
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	50 mg/kg	161 & 182	Adopted	2008
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	50 mg/kg	161	Adopted	2008
04.1.2.11	Fruit fillings for pastries	50 mg/kg	161	Adopted	2008
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	500 mg/kg	161	Adopted	2008
05.1.4	Cocoa and chocolate products	300 mg/kg	183	Adopted	2008
05.1.5	Imitation chocolate, chocolate substitute products	50 mg/kg		Adopted	2008
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	300 mg/kg	161	Adopted	2008
05.3	Chewing gum	300 mg/kg		Adopted	2008
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	50 mg/kg		Adopted	2008
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	50 mg/kg		Adopted	2008
06.8.1	Soybean-based beverages	50 mg/kg		7	
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	50 mg/kg		Adopted	2008
08.4	Edible casings (e.g., sausage casings)	500 mg/kg	16	Adopted	2008
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	16 & 95	Adopted	2008
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	16 & 95	Adopted	2008
09.2.4.1	Cooked fish and fish products	500 mg/kg	95	Adopted	2008
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	250 mg/kg		Adopted	2008
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	100 mg/kg	22	Adopted	2008
09.3.3	Salmon substitutes, caviar, and other fish roe products	500 mg/kg		Adopted	2008
09.3.4	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3	100 mg/kg		Adopted	2008
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg		Adopted	2008
10.1	Fresh eggs	500 mg/kg	4	Adopted	2008

PONCEAU 4R (COCHINEAL RED A)

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
10.4	Egg-based desserts (e.g., custard)	50 mg/kg		Adopted	2008
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	300 mg/kg	159	Adopted	2008
12.2.2	Seasonings and condiments	500 mg/kg		Adopted	2008
12.4	Mustards	300 mg/kg		Adopted	2008
12.5	Soups and broths	50 mg/kg		Adopted	2008
12.6	Sauces and like products	50 mg/kg		Adopted	2008
12.7	Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	200 mg/kg		Adopted	2008
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	50 mg/kg		Adopted	2008
13.4	Dietetic formulae for slimming purposes and weight reduction	50 mg/kg		Adopted	2008
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	300 mg/kg		Adopted	2008
13.6	Food supplements	300 mg/kg		Adopted	2008
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	50 mg/kg		Adopted	2008
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	200 mg/kg		Adopted	2008
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	200 mg/kg		Adopted	2008
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	200 mg/kg		Adopted	2008
15.2	Processed nuts, including coated nuts and nut mixtures (with e.g., dried fruit)	100 mg/kg		Adopted	2008

POTASSIUM 5'-INOSINATE

INS 632 Potassium 5'-inosinate Functional Class: Flavour enhancer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
12.1.2	Salt Substitutes	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	

POTASSIUM ACETATES

INS 261 Potassium acetates Functional Class: Acidity regulator, Preservative

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
02.1.3	Lard, tallow, fish oil, and other animal fats	GMP		7	
13.2	Complementary foods for infants and young children	GMP	239	Adopted	2013

POTASSIUM ALGINATE

POTASSIUM ALGINATE

INS 402 Potassium alginate

Functional Class: Bulking agent, Carrier, Emulsifier, Foaming agent, Gelling agent, Glazing agent, Humectant, Sequestrant, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1.2	Buttermilk (plain)	6000 mg/kg		7	
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
02.1.2	Vegetable oils and fats	GMP		7	
02.1.3	Lard, tallow, fish oil, and other animal fats	GMP		7	
04.1.1.2	Surface-treated fresh fruit	GMP		7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
06.4.2	Dried pastas and noodles and like products	GMP		7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	5000 mg/kg		7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	10000 mg/kg		7	
13.2	Complementary foods for infants and young children	5000 mg/kg		7	
14.2.3.2	Sparkling and semi-sparkling grape wines	GMP		7	

POTASSIUM ASCORBATE

INS 303 Potassium ascorbate

Functional Class: Antioxidant

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
02.1.2	Vegetable oils and fats	GMP		7	
02.1.3	Lard, tallow, fish oil, and other animal fats	GMP		7	
04.1.1	Fresh fruit	GMP		7	
06.2.1	Flours	300 mg/kg		7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	1000 mg/kg	70	7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	99	7	
13.2	Complementary foods for infants and young children	500 mg/kg	70	7	
14.1.2.1	Fruit juice	GMP		Adopted	2005
14.1.2.3	Concentrates for fruit juice	GMP	127	Adopted	2005
14.1.3.1	Fruit nectar	GMP		Adopted	2005
14.1.3.3	Concentrates for fruit nectar	GMP	127	Adopted	2005

POTASSIUM ASCORBATE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
14.2.3	Grape wines	GMP		7	

POTASSIUM CARBONATE

INS 501(i) Potassium carbonate Functional Class: Acidity regulator, Stabilizer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
01.8.2	Dried whey and whey products, excluding whey cheeses	GMP		Adopted	2006
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP		Adopted	2013
06.4.1	Fresh pastas and noodles and like products	11000 mg/kg		Adopted	2013
06.4.2	Dried pastas and noodles and like products	GMP	256	Adopted	2013
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41	Adopted	2013
12.2	Herbs, spices, seasonings and condiments (e.g., seasoning for instant noodles)	GMP	51	4	
13.1.1	Infant formulae	2000 mg/kg	55 & 72	Adopted	2013
13.1.2	Follow-up formulae	GMP	72	Adopted	2013
13.1.3	Formulae for special medical purposes for infants	2000 mg/kg	55 & 72	Adopted	2013
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160	Adopted	2013
14.2.3	Grape wines	5000 mg/kg		7	

POTASSIUM CHLORIDE

INS 508 Potassium chloride Functional Class: Flavour enhancer, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
01.8.2	Dried whey and whey products, excluding whey cheeses	GMP		Adopted	2006
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP		Adopted	2013

POTASSIUM CHLORIDE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
06.4.2	Dried pastas and noodles and like products	GMP		4	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP		7	
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	30000 mg/kg		7	
12.1.2	Salt Substitutes	GMP		4	
12.2.1	Herbs and spices	GMP	51	4	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		4	

POTASSIUM DIHYDROGEN CITRATE

INS 332(i) Potassium dihydrogen citrate Functional Class: Acidity regulator, Sequestrant, Stabilizer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1.2	Buttermilk (plain)	GMP	261	Adopted	2013
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP		Adopted	2013
01.2.2	Renneted milk (plain)	GMP		Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
01.8.2	Dried whey and whey products, excluding whey cheeses	GMP		Adopted	2006
02.1.2	Vegetable oils and fats	GMP		7	
02.1.3	Lard, tallow, fish oil, and other animal fats	GMP		7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	16	7	
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP	16	7	
08.1.2	Fresh meat, poultry, and game, comminuted	GMP		7	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	61	Adopted	2013
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	61	Adopted	2013
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16	Adopted	2013
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		Adopted	2013
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	266 & 267	Adopted	2013

POTASSIUM DIHYDROGEN CITRATE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	GMP	258	Adopted	2013
12.1.2	Salt Substitutes	GMP		Adopted	2013
12.2.1	Herbs and spices	GMP	51	7	
13.1.1	Infant formulae	GMP	72	7	
13.1.2	Follow-up formulae	GMP	72	Adopted	2013
13.1.3	Formulae for special medical purposes for infants	GMP	72	4	
13.2	Complementary foods for infants and young children	GMP	239	Adopted	2013
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160	Adopted	2013

POTASSIUM HYDROGEN CARBONATE

INS 501(ii) Potassium hydrogen carbonate Functional Class: Acidity regulator, Raising agent, Stabilizer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
01.8.2	Dried whey and whey products, excluding whey cheeses	GMP		Adopted	2006
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41	Adopted	2013
13.1.1	Infant formulae	2000 mg/kg	55 & 72	Adopted	2013
13.1.2	Follow-up formulae	GMP	72	Adopted	2013
13.1.3	Formulae for special medical purposes for infants	2000 mg/kg	55 & 72	Adopted	2013
13.2	Complementary foods for infants and young children	GMP		Adopted	2013
14.2.3	Grape wines	5000 mg/kg		7	

POTASSIUM HYDROXIDE

INS 525 Potassium hydroxide Functional Class: Acidity regulator

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.8.2	Dried whey and whey products, excluding whey cheeses	GMP		Adopted	2006
13.1.1	Infant formulae	2000 mg/kg	55 & 72	Adopted	2013
13.1.2	Follow-up formulae	GMP	72	Adopted	2013
13.1.3	Formulae for special medical purposes for infants	2000 mg/kg	55 & 72	Adopted	2013
13.2	Complementary foods for infants and young children	GMP	239	Adopted	2013

POTASSIUM LACTATE

POTASSIUM LACTATE

INS 326 Potassium lactate Functional Class: Acidity regulator, Antioxidant, Emulsifier, Humectant

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1.2	Buttermilk (plain)	GMP	261	Adopted	2013
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP		Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP		Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
02.1.3	Lard, tallow, fish oil, and other animal fats	GMP		7	
08.1	Fresh meat, poultry, and game	20000 mg/kg		7	
13.2	Complementary foods for infants and young children	GMP	83 & 239	Adopted	2013

POWDERED CELLULOSE

INS 460(ii) Powdered cellulose Functional Class: Anticaking agent, Bulking agent, Emulsifier, Glazing agent, Humectant, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1.2	Buttermilk (plain)	GMP		7	
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235	Adopted	2013
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.2.2	Renneted milk (plain)	GMP		Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
01.8.2	Dried whey and whey products, excluding whey cheeses	10000 mg/kg		Adopted	2006
04.1.1.2	Surface-treated fresh fruit	GMP	16	7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	16	7	
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP	16	7	
08.1.2	Fresh meat, poultry, and game, comminuted	GMP		7	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	

POWDERED CELLULOSE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	GMP		7	
12.1.2	Salt Substitutes	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	
13.2	Complementary foods for infants and young children	GMP		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		7	

PROCESSED EUCHEUMA SEAWEED (PES)

INS 407a Processed eucheuma seaweed Functional Class: Bulking agent, Carrier, Emulsifier, Gelling agent, Glazing agent, Humectant, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1	Milk and buttermilk (plain)	GMP		4	
01.2	Fermented and renneted milk products (plain), excluding food category 01.1.2 (dairy-based drinks)	5000 mg/kg		7	
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
02.1.2	Vegetable oils and fats	GMP		7	
02.1.3	Lard, tallow, fish oil, and other animal fats	GMP		7	
04.1.1.2	Surface-treated fresh fruit	GMP		7	
04.1.1.3	Peeled or cut fresh fruit	GMP		4	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
04.2.1.3	Peeled, cut or shredded fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		4	
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		4	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP		Adopted	2013
06.4.1	Fresh pastas and noodles and like products	GMP		4	
06.4.2	Dried pastas and noodles and like products	8330 mg/kg	37	7	
08.1	Fresh meat, poultry, and game	GMP		4	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	5000 mg/kg		7	

PROCESSED EUCHEUMA SEAWEED (PES)

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	5000 mg/kg		7	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.4.1	Cooked fish and fish products	5000 mg/kg		7	
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	GMP		4	
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
10.2.1	Liquid egg products	GMP		4	
10.2.2	Frozen egg products	GMP		4	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	GMP		4	
12.2.1	Herbs and spices	GMP	51	7	
13.2	Complementary foods for infants and young children	GMP		4	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		7	

PROPIONIC ACID

INS 280 Propionic acid Functional Class: Preservative

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.6.6	Whey protein cheese	3000 mg/kg	70	Adopted	2006

PROPYL GALLATE

INS 310 Propyl gallate Functional Class: Antioxidant

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.5.1	Milk powder and cream powder (plain)	200 mg/kg	15, 75 & 196	Adopted	2001
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	90 mg/kg	2 & 15	Adopted	2001
02.1.1	Butter oil, anhydrous milkfat, ghee	100 mg/kg	15, 133 & 171	Adopted	2006
02.1.2	Vegetable oils and fats	200 mg/kg	15 & 130	Adopted	2006
02.1.3	Lard, tallow, fish oil, and other animal fats	200 mg/kg	15 & 130	Adopted	2006
02.2.2	Fat spreads, dairy fat spreads and blended spreads	200 mg/kg	15 & 130	Adopted	2004
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	200 mg/kg	15 & 130	Adopted	2004
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	200 mg/kg	15 & 130	Adopted	2004
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	90 mg/kg	2 & 15	Adopted	2001

PROPYL GALLATE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	50 mg/kg	15, 76 & 196	Adopted	2001
05.1	Cocoa products and chocolate products including imitations and chocolate substitutes	200 mg/kg	15 & 130	Adopted	2001
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	200 mg/kg	15 & 130	Adopted	2001
05.3	Chewing gum	1000 mg/kg	130	Adopted	2001
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	200 mg/kg	15 & 130	Adopted	2001
06.1	Whole, broken, or flaked grain, including rice	100 mg/kg	15	Adopted	2001
06.3	Breakfast cereals, including rolled oats	200 mg/kg	15 & 196	Adopted	2001
06.4.3	Pre-cooked pastas and noodles and like products	200 mg/kg	15, 130 & 211	Adopted	2012
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	90 mg/kg	2 & 15	Adopted	2001
07.1.3	Other ordinary bakery products (e.g., bagels, pita, English muffins)	100 mg/kg	15 & 130	Adopted	2001
07.2.3	Mixes for fine bakery wares (e.g., cakes, pancakes)	200 mg/kg	15 & 196	Adopted	2001
08.2	Processed meat, poultry, and game products in whole pieces or cuts	200 mg/kg	15 & 130	Adopted	2001
08.3	Processed comminuted meat, poultry, and game products	200 mg/kg	15 & 130	Adopted	2001
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	100 mg/kg	15 & 196	Adopted	2001
10.4	Egg-based desserts (e.g., custard)	90 mg/kg	2 & 15	Adopted	2001
12.2	Herbs, spices, seasonings and condiments (e.g., seasoning for instant noodles)	200 mg/kg	15 & 130	Adopted	2001
12.5	Soups and broths	200 mg/kg	15, 127 & 130	Adopted	2012
12.6	Sauces and like products	200 mg/kg	15 & 130	Adopted	2001
13.6	Food supplements	400 mg/kg	15 & 196	Adopted	2001
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	1000 mg/kg	15	Adopted	2001
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	200 mg/kg	15 & 130	Adopted	2005
15.2	Processed nuts, including coated nuts and nut mixtures (with e.g., dried fruit)	200 mg/kg	15 & 130	Adopted	2005

PROPYLENE GLYCOL

INS 1520

Propylene glycol

Functional Class: Emulsifier, Glazing agent, Humectant

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.6.1	Unripened cheese	6000 mg/kg		7	
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	25000 mg/kg		7	
03.0	Edible ices, including sherbet and sorbet	25000 mg/kg		7	

PROPYLENE GLYCOL

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.1.2.2	Dried fruit	50000 mg/kg		7	
04.1.2.7	Candied fruit	50000 mg/kg		7	
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	200000 mg/kg		7	
04.1.2.11	Fruit fillings for pastries	200000 mg/kg		7	
04.2.1	Fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	50000 mg/kg		7	
04.2.2	Processed vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	50000 mg/kg	79	7	
05.0	Confectionery	240000 mg/kg		7	
06.4.1	Fresh pastas and noodles and like products	20000 mg/kg		7	
06.4.3	Pre-cooked pastas and noodles and like products	20000 mg/kg		4	
06.6	Batters (e.g., for breading or batters for fish or poultry)	500 mg/kg	72	7	
07.1	Bread and ordinary bakery wares	10000 mg/kg		7	
07.2.1	Cakes, cookies and pies (e.g., fruit-filled or custard types)	50000 mg/kg		7	
07.2.2	Other fine bakery products (e.g., doughnuts, sweet rolls, scones, and muffins)	10000 mg/kg		7	
07.2.3	Mixes for fine bakery wares (e.g., cakes, pancakes)	10000 mg/kg		7	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	20000 mg/kg	22	7	
11.6	Table-top sweeteners, including those containing high-intensity sweeteners	GMP		7	
12.2.2	Seasonings and condiments	970000 mg/kg		7	
12.4	Mustards	15000 mg/kg		7	
12.5.2	Mixes for soups and broths	500 mg/kg	127	7	
12.6.1	Emulsified sauces and dips (e.g., mayonnaise, salad dressing, onion dip)	800 mg/kg		7	
12.6.2	Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy)	500 mg/kg		7	
13.6	Food supplements	2000 mg/kg		4	
14.1.4.1	Carbonated water-based flavoured drinks	3000 mg/kg		7	
14.1.4.2	Non-carbonated water-based flavoured drinks, including punches and ades	3000 mg/kg		7	
14.1.4.3	Concentrates (liquid or solid) for water-based flavoured drinks	200000 mg/kg		7	
14.2	Alcoholic beverages, including alcohol-free and low-alcoholic counterparts	50000 mg/kg		7	
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	300 mg/kg		7	
15.2	Processed nuts, including coated nuts and nut mixtures (with e.g., dried fruit)	50000 mg/kg		7	

PROPYLENE GLYCOL ALGINATE

PROPYLENE GLYCOL ALGINATE

INS 405 Propylene glycol alginate Functional Class: Bulking agent, Carrier, Emulsifier, Foaming agent, Gelling agent, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1.2	Buttermilk (plain)	3000 mg/kg		7	
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	10000 mg/kg		4	
01.2	Fermented and renneted milk products (plain), excluding food category 01.1.2 (dairy-based drinks)	10000 mg/kg		4	
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	5000 mg/kg		7	
01.3.2	Beverage whiteners	5000 mg/kg		7	
01.4.3	Clotted cream (plain)	5000 mg/kg		7	
01.4.4	Cream analogues	2500 mg/kg		7	
01.6.1	Unripened cheese	9000 mg/kg		7	
01.6.2.1	Ripened cheese, includes rind	9000 mg/kg		7	
01.6.2.2	Rind of ripened cheese	9000 mg/kg		7	
01.6.2.3	Cheese powder (for reconstitution; e.g., for cheese sauces)	16000 mg/kg		7	
01.6.4	Processed cheese	9000 mg/kg		7	
01.6.5	Cheese analogues	9000 mg/kg		7	
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	10000 mg/kg		7	
02.1.2	Vegetable oils and fats	11000 mg/kg		7	
02.1.3	Lard, tallow, fish oil, and other animal fats	11000 mg/kg		7	
02.2.2	Fat spreads, dairy fat spreads and blended spreads	10000 mg/kg		7	
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	3000 mg/kg		7	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	10000 mg/kg		7	
03.0	Edible ices, including sherbet and sorbet	10000 mg/kg		4	
04.1.1.2	Surface-treated fresh fruit	10000 mg/kg		4	
04.1.1.3	Peeled or cut fresh fruit	10000 mg/kg		4	
04.1.2.1	Frozen fruit	10000 mg/kg		7	
04.1.2.5	Jams, jellies, marmelades	20000 mg/kg		7	
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	7500 mg/kg		7	
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	10000 mg/kg		7	
04.1.2.11	Fruit fillings for pastries	7500 mg/kg		7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	10000 mg/kg		4	

PROPYLENE GLYCOL ALGINATE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	10000 mg/kg		4	
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	6000 mg/kg		7	
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	10000 mg/kg	39	7	
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g., peanut butter)	10000 mg/kg		4	
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	5000 mg/kg		7	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	10000 mg/kg		4	
05.1	Cocoa products and chocolate products including imitations and chocolate substitutes	5000 mg/kg		7	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	5000 mg/kg		7	
05.3	Chewing gum	10000 mg/kg		7	
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	7500 mg/kg		7	
06.4.1	Fresh pastas and noodles and like products	10000 mg/kg		4	
06.4.2	Dried pastas and noodles and like products	1000 mg/kg		4	
06.4.3	Pre-cooked pastas and noodles and like products	5000 mg/kg		7	
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	10000 mg/kg		7	
07.0	Bakery wares	5000 mg/kg		7	
08.3	Processed comminuted meat, poultry, and game products	5000 mg/kg		7	
08.4	Edible casings (e.g., sausage casings)	20000 mg/kg		7	
10.2.1	Liquid egg products	10000 mg/kg		4	
10.2.2	Frozen egg products	10000 mg/kg		4	
10.4	Egg-based desserts (e.g., custard)	10000 mg/kg		7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	5000 mg/kg		7	
12.2.2	Seasonings and condiments	6000 mg/kg		7	
12.5	Soups and broths	10000 mg/kg		4	
12.6.1	Emulsified sauces and dips (e.g., mayonnaise, salad dressing, onion dip)	10000 mg/kg		7	
12.6.2	Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy)	8000 mg/kg		7	
12.6.3	Mixes for sauces and gravies	8000 mg/kg		7	

PROPYLENE GLYCOL ALGINATE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
12.6.4	Clear sauces (e.g., fish sauce)	8000 mg/kg		7	
13.2	Complementary foods for infants and young children	10000 mg/kg		4	
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	1200 mg/kg		7	
13.4	Dietetic formulae for slimming purposes and weight reduction	1200 mg/kg		7	
13.6	Food supplements	1000 mg/kg		7	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	500 mg/kg		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	10000 mg/kg		4	
14.2.1	Beer and malt beverages	3000 mg/kg		7	
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	10000 mg/kg		7	
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	3000 mg/kg		7	

PROPYLENE GLYCOL ESTERS OF FATTY ACIDS

INS 477 Propylene glycol esters of fatty acids Functional Class: Emulsifier

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	5000 mg/kg		Adopted	2001
01.3.2	Beverage whiteners	1000 mg/kg		Adopted	2001
01.4.4	Cream analogues	5000 mg/kg	86	Adopted	2001
01.5.2	Milk and cream powder analogues	100000 mg/kg		Adopted	2001
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	5000 mg/kg		Adopted	2001
02.1.2	Vegetable oils and fats	10000 mg/kg		Adopted	2006
02.1.3	Lard, tallow, fish oil, and other animal fats	10000 mg/kg		Adopted	2006
02.2.2	Fat spreads, dairy fat spreads and blended spreads	20000 mg/kg		Adopted	2001
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	30000 mg/kg		Adopted	2001
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	40000 mg/kg		Adopted	2006
03.0	Edible ices, including sherbet and sorbet	5000 mg/kg		Adopted	2001
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	40000 mg/kg		Adopted	2001
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	40000 mg/kg		Adopted	2001
04.1.2.11	Fruit fillings for pastries	40000 mg/kg		Adopted	2001

PROPYLENE GLYCOL ESTERS OF FATTY ACIDS

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	5000 mg/kg		Adopted	2001
05.1.1	Cocoa mixes (powders) and cocoa mass/cake	5000 mg/kg	97	Adopted	2007
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	5000 mg/kg		Adopted	2001
05.3	Chewing gum	20000 mg/kg		Adopted	2001
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	40000 mg/kg		Adopted	2001
06.4.3	Pre-cooked pastas and noodles and like products	5000 mg/kg	2 & 153	Adopted	2007
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	40000 mg/kg		Adopted	2001
06.8.1	Soybean-based beverages	500 mg/kg		4	
07.0	Bakery wares	15000 mg/kg	11 & 72	Adopted	2001
10.4	Egg-based desserts (e.g., custard)	40000 mg/kg		Adopted	2001
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	5000 mg/kg		Adopted	2001
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	5000 mg/kg		Adopted	2001
13.4	Dietetic formulae for slimming purposes and weight reduction	5000 mg/kg		Adopted	2001
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	500 mg/kg		Adopted	2001

PROTEASE

INS 1101(i) Protease

Functional Class: Flavour enhancer, Flour treatment agent, Stabilizer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
06.1	Whole, broken, or flaked grain, including rice	GMP		7	
06.2.1	Flours	GMP		Adopted	1999
08.1	Fresh meat, poultry, and game	GMP		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		7	
14.2.3	Grape wines	GMP		7	

PULLULAN

INS 1204 Pullulan

Functional Class: Glazing agent, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.1.1	Fresh fruit	30000 mg/kg		4	
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	30000 mg/kg		4	

PULLULAN

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	30000 mg/kg		4	
06.2.1	Flours	50000 mg/kg		4	
06.4.1	Fresh pastas and noodles and like products	10000 mg/kg		4	
06.4.2	Dried pastas and noodles and like products	10000 mg/kg		4	
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	30000 mg/kg		4	
10.2.1	Liquid egg products	20000 mg/kg		4	
10.2.2	Frozen egg products	20000 mg/kg		4	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	10000 mg/kg		4	
12.2.1	Herbs and spices	30000 mg/kg		4	
13.2	Complementary foods for infants and young children	30000 mg/kg		4	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	4000 mg/kg		4	

QUILLAIA EXTRACTS

INS 999(i) Quillaia extract type 1 Functional Class: Emulsifier, Foaming agent

INS 999(ii) Quillaia extract type 2 Functional Class: Emulsifier, Foaming agent

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	50 mg/kg	132 & 168	Adopted	2007

QUINOLINE YELLOW

INS 104 Quinoline yellow Functional Class: Colour

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	150 mg/kg	52	7	
01.6.1	Unripened cheese	GMP	3	7	
01.6.2.2	Rind of ripened cheese	GMP		7	
01.6.4	Processed cheese	200 mg/kg		7	
01.6.5	Cheese analogues	GMP	3	7	
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	150 mg/kg		7	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	150 mg/kg		7	
03.0	Edible ices, including sherbet and sorbet	150 mg/kg		7	

QUINOLINE YELLOW

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.1.1.2	Surface-treated fresh fruit	500 mg/kg	4 & 16	7	
04.1.2.4	Canned or bottled (pasteurized) fruit	200 mg/kg		7	
04.1.2.5	Jams, jellies, marmelades	500 mg/kg		7	
04.1.2.6	Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5	500 mg/kg		7	
04.1.2.7	Candied fruit	200 mg/kg		7	
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	500 mg/kg	182	7	
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	150 mg/kg		7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	500 mg/kg	4 & 16	7	
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	500 mg/kg		7	
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	200 mg/kg		7	
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g., peanut butter)	100 mg/kg		7	
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	200 mg/kg	92	7	
05.1	Cocoa products and chocolate products including imitations and chocolate substitutes	300 mg/kg	183	7	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	300 mg/kg		7	
05.3	Chewing gum	300 mg/kg		7	
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	500 mg/kg		7	
06.3	Breakfast cereals, including rolled oats	200 mg/kg		7	
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	150 mg/kg		7	
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	200 mg/kg		7	
08.0	Meat and meat products, including poultry and game	500 mg/kg	4 & 16	7	
09.1.1	Fresh fish	300 mg/kg	4, 16 & 50	7	
09.1.2	Fresh mollusks, crustaceans, and echinoderms	500 mg/kg	4 & 16	7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	95	7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	16	7	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	16	7	
09.2.4.1	Cooked fish and fish products	500 mg/kg		7	
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	250 mg/kg		7	

QUINOLINE YELLOW

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	16	7	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	22	7	
09.3.1	Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly	500 mg/kg	16	7	
09.3.2	Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine	500 mg/kg	16	7	
09.3.3	Salmon substitutes, caviar, and other fish roe products	500 mg/kg		7	
09.3.4	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3	500 mg/kg		7	
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg		7	
10.1	Fresh eggs	GMP	4	7	
10.4	Egg-based desserts (e.g., custard)	150 mg/kg		7	
12.2.2	Seasonings and condiments	500 mg/kg		7	
12.4	Mustards	300 mg/kg		7	
12.5	Soups and broths	300 mg/kg		7	
12.6	Sauces and like products	500 mg/kg		7	
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	50 mg/kg		7	
13.4	Dietetic formulae for slimming purposes and weight reduction	50 mg/kg		7	
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	300 mg/kg		7	
13.6	Food supplements	300 mg/kg		7	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	100 mg/kg		7	
14.2.2	Cider and perry	200 mg/kg		7	
14.2.4	Wines (other than grape)	200 mg/kg		7	
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	200 mg/kg		7	
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	200 mg/kg		7	
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	200 mg/kg		7	
15.2	Processed nuts, including coated nuts and nut mixtures (with e.g., dried fruit)	100 mg/kg		7	

RED 2G

INS 128

Red 2G

Functional Class: Colour

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
08.1.2	Fresh meat, poultry, and game, comminuted	25 mg/kg	4 & 16	7	
10.1	Fresh eggs	GMP	4	7	

RED 2G

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	GMP		7	
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	GMP		7	

RIBOFLAVINS

INS 101(i) Riboflavin, synthetic Functional Class: Colour

INS 101(ii) Riboflavin 5'-phosphate sodium Functional Class: Colour

INS 101(iii) Riboflavin from Bacillus subtilis Functional Class: Colour

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	300 mg/kg	52	Adopted	2008
01.3.2	Beverage whiteners	300 mg/kg		Adopted	2005
01.5.2	Milk and cream powder analogues	300 mg/kg		Adopted	2005
01.6.1	Unripened cheese	300 mg/kg		Adopted	2005
01.6.2.1	Ripened cheese, includes rind	300 mg/kg		Adopted	2005
01.6.2.2	Rind of ripened cheese	300 mg/kg		Adopted	2005
01.6.4	Processed cheese	300 mg/kg		Adopted	2005
01.6.5	Cheese analogues	300 mg/kg		Adopted	2005
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	300 mg/kg		Adopted	2005
02.2.2	Fat spreads, dairy fat spreads and blended spreads	300 mg/kg		Adopted	2005
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	300 mg/kg		Adopted	2008
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	300 mg/kg		Adopted	2005
03.0	Edible ices, including sherbet and sorbet	500 mg/kg		Adopted	2005
04.1.1.2	Surface-treated fresh fruit	300 mg/kg	4 & 16	Adopted	2008
04.1.2.4	Canned or bottled (pasteurized) fruit	300 mg/kg		Adopted	2005
04.1.2.5	Jams, jellies, marmelades	200 mg/kg		Adopted	2005
04.1.2.6	Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5	500 mg/kg		Adopted	2005
04.1.2.7	Candied fruit	300 mg/kg		Adopted	2005
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	300 mg/kg	182	Adopted	2008
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	300 mg/kg		Adopted	2005
04.1.2.10	Fermented fruit products	500 mg/kg		Adopted	2008
04.1.2.11	Fruit fillings for pastries	300 mg/kg		Adopted	2005

RIBOFLAVINS

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	300 mg/kg	4 & 16	Adopted	2008
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	500 mg/kg		Adopted	2005
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	300 mg/kg	92	Adopted	2008
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	500 mg/kg		Adopted	2008
05.1.5	Imitation chocolate, chocolate substitute products	1000 mg/kg		Adopted	2005
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	1000 mg/kg		Adopted	2005
05.3	Chewing gum	1000 mg/kg		Adopted	2005
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	1000 mg/kg		Adopted	2005
06.3	Breakfast cereals, including rolled oats	300 mg/kg		Adopted	2005
06.4.3	Pre-cooked pastas and noodles and like products	300 mg/kg	153	Adopted	2008
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	300 mg/kg		Adopted	2005
06.6	Batters (e.g., for breading or batters for fish or poultry)	300 mg/kg		Adopted	2005
06.8.1	Soybean-based beverages	50 mg/kg		Adopted	2010
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	300 mg/kg		Adopted	2005
08.2	Processed meat, poultry, and game products in whole pieces or cuts	1000 mg/kg	16	Adopted	2008
08.3	Processed comminuted meat, poultry, and game products	1000 mg/kg	16	Adopted	2008
08.4	Edible casings (e.g., sausage casings)	1000 mg/kg	16	Adopted	2008
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	1000 mg/kg	95	Adopted	2008
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	300 mg/kg	16	Adopted	2005
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	300 mg/kg	16	Adopted	2005
09.2.4.1	Cooked fish and fish products	300 mg/kg	95	Adopted	2008
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	300 mg/kg		Adopted	2008
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	300 mg/kg	16	Adopted	2005
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	300 mg/kg	22	Adopted	2005
09.3.1	Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly	300 mg/kg	16	Adopted	2005
09.3.2	Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine	300 mg/kg	16	Adopted	2005

RIBOFLAVINS

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
09.3.3	Salmon substitutes, caviar, and other fish roe products	300 mg/kg		Adopted	2005
09.3.4	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3	300 mg/kg		Adopted	2005
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	95	Adopted	2008
10.1	Fresh eggs	300 mg/kg	4	Adopted	2005
10.4	Egg-based desserts (e.g., custard)	300 mg/kg		Adopted	2005
11.3	Sugar solutions and syrups, also (partially) inverted, including treacle and molasses, excluding products of food category 11.1.3	300 mg/kg		Adopted	2005
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	300 mg/kg		Adopted	2005
12.2.2	Seasonings and condiments	350 mg/kg		Adopted	2005
12.4	Mustards	300 mg/kg		Adopted	2005
12.5	Soups and broths	200 mg/kg		Adopted	2005
12.6	Sauces and like products	350 mg/kg		Adopted	2005
12.7	Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	300 mg/kg		Adopted	2005
12.9.1	Fermented soybean paste (e.g., miso)	30 mg/kg		Adopted	2010
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	300 mg/kg		Adopted	2005
13.4	Dietetic formulae for slimming purposes and weight reduction	300 mg/kg		Adopted	2005
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	300 mg/kg		Adopted	2005
13.6	Food supplements	300 mg/kg		Adopted	2005
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	50 mg/kg		Adopted	2005
14.2.2	Cider and perry	300 mg/kg		Adopted	2005
14.2.4	Wines (other than grape)	300 mg/kg		Adopted	2005
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	100 mg/kg		Adopted	2005
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	1000 mg/kg		Adopted	2005
15.2	Processed nuts, including coated nuts and nut mixtures (with e.g., dried fruit)	1000 mg/kg		Adopted	2005

SACCHARINS

INS 954(i)	Saccharin	Functional Class: Sweetener
INS 954(ii)	Calcium saccharin	Functional Class: Sweetener
INS 954(iii)	Potassium saccharin	Functional Class: Sweetener
INS 954(iv)	Sodium saccharin	Functional Class: Sweetener

SACCHARINS

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	80 mg/kg	161	Adopted	2007
01.6.5	Cheese analogues	100 mg/kg	161	Adopted	2008
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	100 mg/kg	161	Adopted	2007
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	100 mg/kg	161	Adopted	2007
03.0	Edible ices, including sherbet and sorbet	100 mg/kg	161	Adopted	2007
04.1.2.3	Fruit in vinegar, oil, or brine	160 mg/kg	144	Adopted	2007
04.1.2.4	Canned or bottled (pasteurized) fruit	200 mg/kg	161	Adopted	2007
04.1.2.5	Jams, jellies, marmelades	200 mg/kg	161	Adopted	2007
04.1.2.6	Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5	200 mg/kg	161	Adopted	2007
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	200 mg/kg	161	Adopted	2007
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	100 mg/kg	161	Adopted	2007
04.1.2.10	Fermented fruit products	160 mg/kg	161	Adopted	2008
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	500 mg/kg	161	Adopted	2008
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	500 mg/kg	161	Adopted	2008
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	160 mg/kg	144	Adopted	2007
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	160 mg/kg	144 & 161	Adopted	2008
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g., peanut butter)	160 mg/kg	161	Adopted	2008
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	200 mg/kg	161	Adopted	2008
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	200 mg/kg	161	Adopted	2008
04.2.2.8	Cooked or fried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	160 mg/kg	144 & 161	Adopted	2008
05.1.1	Cocoa mixes (powders) and cocoa mass/cake	100 mg/kg	97 & 161	Adopted	2008
05.1.2	Cocoa mixes (syrups)	80 mg/kg	161	Adopted	2007
05.1.3	Cocoa-based spreads, including fillings	200 mg/kg	161	Adopted	2007
05.1.4	Cocoa and chocolate products	500 mg/kg	161	Adopted	2007

SACCHARINS

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
05.1.5	Imitation chocolate, chocolate substitute products	500 mg/kg	161	Adopted	2007
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	500 mg/kg	161 & 163	Adopted	2007
05.3	Chewing gum	2500 mg/kg	161	Adopted	2007
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	500 mg/kg	161	Adopted	2007
06.3	Breakfast cereals, including rolled oats	100 mg/kg	161	Adopted	2008
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	100 mg/kg	161	Adopted	2007
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	170 mg/kg	165	Adopted	2007
08.2.2	Heat-treated processed meat, poultry, and game products in whole pieces or cuts	500 mg/kg	161	Adopted	2008
08.3.2	Heat-treated processed comminuted meat, poultry, and game products	500 mg/kg	161	Adopted	2008
09.2.4.1	Cooked fish and fish products	500 mg/kg	161	Adopted	2008
09.3.1	Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly	160 mg/kg	144	Adopted	2007
09.3.2	Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine	160 mg/kg	144	Adopted	2007
09.3.4	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3	160 mg/kg	144	Adopted	2007
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	200 mg/kg	144	Adopted	2007
10.4	Egg-based desserts (e.g., custard)	100 mg/kg	144	Adopted	2007
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	300 mg/kg	159	Adopted	2008
11.6	Table-top sweeteners, including those containing high-intensity sweeteners	GMP		Adopted	2007
12.2.2	Seasonings and condiments	1500 mg/kg	161	Adopted	2008
12.3	Vinegars	300 mg/kg		Adopted	2008
12.4	Mustards	320 mg/kg		Adopted	2007
12.5	Soups and broths	110 mg/kg	161	Adopted	2007
12.6	Sauces and like products	160 mg/kg		Adopted	2007
12.7	Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	200 mg/kg	161 & 166	Adopted	2010
12.9.1	Fermented soybean paste (e.g., miso)	200 mg/kg		Adopted	2012
12.9.2.1	Fermented soybean sauce	500 mg/kg		Adopted	2012
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	200 mg/kg		Adopted	2007
13.4	Dietetic formulae for slimming purposes and weight reduction	300 mg/kg		Adopted	2007
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	200 mg/kg		Adopted	2007
13.6	Food supplements	1200 mg/kg		Adopted	2007
14.1.3.1	Fruit nectar	80 mg/kg		Adopted	2005

SACCHARINS

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
14.1.3.2	Vegetable nectar	80 mg/kg	161	Adopted	2008
14.1.3.3	Concentrates for fruit nectar	80 mg/kg	127	Adopted	2005
14.1.3.4	Concentrates for vegetable nectar	80 mg/kg	127 & 161	6	
14.1.4.1	Carbonated water-based flavoured drinks	300 mg/kg	161	Adopted	2008
14.1.4.2	Non-carbonated water-based flavoured drinks, including punches and ades	300 mg/kg	161	Adopted	2008
14.1.4.3	Concentrates (liquid or solid) for water-based flavoured drinks	300 mg/kg	127 & 161	Adopted	2008
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	200 mg/kg	160	Adopted	2007
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	80 mg/kg		Adopted	2007
15.0	Ready-to-eat savouries	100 mg/kg		Adopted	2007

SALTS OF MYRISTIC, PALMITIC AND STEARIC ACIDS WITH AMMONIA, CALCIUM, POTASSIUM AND SODIUM

INS 470(i) Salts of myristic, palmitic and stearic acids with ammonia, calcium, potassium and sodium Functional Class: Anticaking agent, Emulsifier, Stabilizer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1.2	Buttermilk (plain)	GMP		7	
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.2.2	Renneted milk (plain)	GMP		Adopted	2013
04.1.1.2	Surface-treated fresh fruit	GMP	16 & 71	7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	16 & 71	7	
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
06.4.2	Dried pastas and noodles and like products	GMP		7	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP	16 & 71	7	
08.1.2	Fresh meat, poultry, and game, comminuted	GMP	71	7	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	16 & 71	7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	71	7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	16 & 71	7	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16 & 71	7	
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	

SALTS OF MYRISTIC, PALMITIC AND STEARIC ACIDS WITH AMMONIA, CALCIUM,

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
10.2.1	Liquid egg products	GMP		7	
10.2.2	Frozen egg products	GMP		7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	GMP	71	7	
12.1.1	Salt	GMP	71	Adopted	2006
12.1.2	Salt Substitutes	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		7	

SALTS OF OLEIC ACID WITH CALCIUM, POTASSIUM AND SODIUM

INS 470(ii) Salts of oleic acid with calcium, potassium and sodium Functional Class: Anticaking agent, Emulsifier, Stabilizer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1.2	Buttermilk (plain)	GMP		7	
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.2.2	Renneted milk (plain)	GMP		Adopted	2013
04.1.1.2	Surface-treated fresh fruit	GMP	16	7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	16	7	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP	16	7	
08.1.2	Fresh meat, poultry, and game, comminuted	GMP		7	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	GMP		7	
12.1.2	Salt Substitutes	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		7	

SHELLAC, BLEACHED

SHELLAC, BLEACHED

INS 904 Shellac, bleached Functional Class: Glazing agent

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.1.1.2	Surface-treated fresh fruit	GMP		Adopted	2003
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	79	Adopted	2003
05.1.4	Cocoa and chocolate products	GMP	3	Adopted	2001
05.1.5	Imitation chocolate, chocolate substitute products	GMP	3	Adopted	2001
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	GMP	3	Adopted	2001
05.3	Chewing gum	GMP	3	Adopted	2003
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	GMP		Adopted	2003
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	GMP	3	Adopted	2001
13.6	Food supplements	GMP	3	Adopted	2001
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	108	Adopted	2001
15.0	Ready-to-eat savouries	GMP	3	Adopted	2001

SILICON DIOXIDE, AMORPHOUS

INS 551 Silicon dioxide, amorphous Functional Class: Anticaking agent, Antifoaming agent, Carrier

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.8.2	Dried whey and whey products, excluding whey cheeses	10000 mg/kg		Adopted	2006
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP		4	
06.2	Flours and starches (including soybean powder)	GMP		4	
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
11.1.2	Powdered sugar, powdered dextrose	15000 mg/kg	56	Adopted	2006
12.1.1	Salt	GMP		Adopted	2006
12.1.2	Salt Substitutes	10000 mg/kg		7	
12.2.1	Herbs and spices	GMP	51	4	
13.2	Complementary foods for infants and young children	10000 mg/kg	65	7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	15000 mg/kg	2	4	

SODIUM ACETATE

SODIUM ACETATE

INS 262(i) Sodium acetate

Functional Class: Acidity regulator, Preservative, Sequestrant

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
02.1.3	Lard, tallow, fish oil, and other animal fats	5000 mg/kg		7	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP		Adopted	2013
06.1	Whole, broken, or flaked grain, including rice	6000 mg/kg		7	
06.2	Flours and starches (including soybean powder)	6000 mg/kg		7	
06.4.1	Fresh pastas and noodles and like products	6000 mg/kg		Adopted	2013
06.4.2	Dried pastas and noodles and like products	GMP	256	Adopted	2013
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP		7	
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
10.2.1	Liquid egg products	GMP		Adopted	2013
10.2.2	Frozen egg products	GMP		Adopted	2013
12.1.2	Salt Substitutes	GMP		Adopted	2013
12.2.1	Herbs and spices	GMP	51	4	
13.2	Complementary foods for infants and young children	GMP	239	Adopted	2013
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160	Adopted	2013

SODIUM ALGINATE

INS 401 Sodium alginate

Functional Class: Bulking agent, Carrier, Emulsifier, Foaming agent, Gelling agent, Glazing agent, Humectant, Sequestrant, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1.1	Milk (plain)	GMP		4	
01.1.1.2	Buttermilk (plain)	6000 mg/kg		7	
01.2	Fermented and renneted milk products (plain), excluding food category 01.1.2 (dairy-based drinks)	GMP		4	
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
02.1.2	Vegetable oils and fats	GMP		7	
02.1.3	Lard, tallow, fish oil, and other animal fats	GMP		7	
04.1.1.2	Surface-treated fresh fruit	GMP		7	
04.1.1.3	Peeled or cut fresh fruit	GMP		4	

SODIUM ALGINATE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		4	
06.4.1	Fresh pastas and noodles and like products	GMP		4	
06.4.2	Dried pastas and noodles and like products	GMP		7	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	15000 mg/kg		7	
08.1.2	Fresh meat, poultry, and game, comminuted	8000 mg/kg		7	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	5000 mg/kg		7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41 & 99	7	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
10.2.1	Liquid egg products	GMP		4	
10.2.2	Frozen egg products	GMP		4	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	10000 mg/kg		7	
13.2	Complementary foods for infants and young children	5000 mg/kg		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		4	

SODIUM ALUMINIUM PHOSPHATES

INS 541(i)	Sodium aluminium phosphate, acidic	Functional Class: Acidity regulator, Emulsifier, Raising agent, Stabilizer, Thickener
INS 541(ii)	Sodium aluminium phosphate, basic	Functional Class: Acidity regulator, Emulsifier, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.6.4	Processed cheese	1600 mg/kg	6 & 251	Adopted	2013
06.2.1	Flours	1600 mg/kg	6 & 252	Adopted	2013
06.6	Batters (e.g., for breading or batters for fish or poultry)	1000 mg/kg	6	Adopted	2013
07.1.2	Crackers, excluding sweet crackers	100 mg/kg	6 & 246	Adopted	2013
07.1.3	Other ordinary bakery products (e.g., bagels, pita, English muffins)	100 mg/kg	6, 244 & 246	Adopted	2013
07.1.5	Steamed breads and buns	40 mg/kg	6, 246 & 248	Adopted	2013
07.1.6	Mixes for bread and ordinary bakery wares	40 mg/kg	6, 246 & 249	Adopted	2013

SODIUM ALUMINOSILICATE

SODIUM ALUMINOSILICATE

INS 554 Sodium aluminosilicate Functional Class: Anticaking agent

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	60 mg/kg	6 & 253	Adopted	2013
01.3.2	Beverage whiteners	570 mg/kg	6 & 260	Adopted	2013
01.5.1	Milk powder and cream powder (plain)	265 mg/kg	6 & 259	Adopted	2013
01.5.2	Milk and cream powder analogues	570 mg/kg	6 & 259	Adopted	2013
01.8.2	Dried whey and whey products, excluding whey cheeses	1140 mg/kg	6	Adopted	2013
05.3	Chewing gum	100 mg/kg	6 & 174	Adopted	2013
12.1.1	Salt	1000 mg/kg	6 & 254	Adopted	2013
12.2.2	Seasonings and condiments	1000 mg/kg	6 & 255	Adopted	2013
12.5.2	Mixes for soups and broths	570 mg/kg	6	Adopted	2013
12.6.3	Mixes for sauces and gravies	570 mg/kg	6	Adopted	2013

SODIUM ASCORBATE

INS 301 Sodium ascorbate Functional Class: Antioxidant

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
02.1.2	Vegetable oils and fats	200 mg/kg		7	
02.1.3	Lard, tallow, fish oil, and other animal fats	200 mg/kg		7	
04.1.1	Fresh fruit	GMP		7	
04.2.1.3	Peeled, cut or shredded fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP		4	
06.2	Flours and starches (including soybean powder)	GMP		4	
06.2.1	Flours	300 mg/kg		7	
06.4.1	Fresh pastas and noodles and like products	200 mg/kg		4	
06.4.2	Dried pastas and noodles and like products	200 mg/kg		4	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	500 mg/kg		7	
08.1.2	Fresh meat, poultry, and game, comminuted	GMP		7	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	200 mg/kg		7	

SODIUM ASCORBATE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	400 mg/kg		7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	200 mg/kg		7	
12.1.2	Salt Substitutes	GMP		4	
12.2.1	Herbs and spices	GMP	51	4	
13.1.2	Follow-up formulae	50 mg/kg	70 & 72	7	
13.2	Complementary foods for infants and young children	3000 mg/kg		7	
14.1.2.1	Fruit juice	GMP		Adopted	2005
14.1.2.3	Concentrates for fruit juice	GMP	127	Adopted	2005
14.1.3.1	Fruit nectar	GMP		Adopted	2005
14.1.3.3	Concentrates for fruit nectar	GMP	127	Adopted	2005
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		4	
14.2.3	Grape wines	200 mg/kg		7	

SODIUM CARBONATE

INS 500(i)

Sodium carbonate

Functional Class: Acidity regulator, Anticaking agent, Raising agent

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP		Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP		Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
01.8.2	Dried whey and whey products, excluding whey cheeses	GMP		Adopted	2006
02.1.3	Lard, tallow, fish oil, and other animal fats	GMP		7	
02.2.1	Butter	GMP		Adopted	2008
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP		Adopted	2013
06.2	Flours and starches (including soybean powder)	GMP		4	
06.4.1	Fresh pastas and noodles and like products	10000 mg/kg		Adopted	2013
06.4.2	Dried pastas and noodles and like products	GMP	256	Adopted	2013
08.1	Fresh meat, poultry, and game	GMP		4	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP		7	

SODIUM CARBONATE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41	Adopted	2013
12.1.2	Salt Substitutes	GMP		Adopted	2013
12.2.1	Herbs and spices	GMP	51	4	
13.1.1	Infant formulae	2000 mg/kg	55 & 72	Adopted	2013
13.1.2	Follow-up formulae	GMP	72	Adopted	2013
13.1.3	Formulae for special medical purposes for infants	2000 mg/kg	55 & 72	Adopted	2013
13.2	Complementary foods for infants and young children	GMP	240 & 243	Adopted	2013
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160	Adopted	2013

SODIUM CARBOXYMETHYL CELLULOSE (CELLULOSE GUM)

INS 466 Sodium carboxymethyl cellulose Functional Class: Bulking agent, Emulsifier, Firming agent, Gelling agent, Glazing agent, Humectant, Stabilizer, Thickener (Cellulose gum)

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1.1	Milk (plain)	GMP		4	
01.1.1.2	Buttermilk (plain)	2000 mg/kg		7	
01.2	Fermented and renneted milk products (plain), excluding food category 01.1.2 (dairy-based drinks)	GMP		4	
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.2.2	Renneted milk (plain)	GMP		Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
04.1.1.2	Surface-treated fresh fruit	GMP	16	7	
04.1.1.3	Peeled or cut fresh fruit	GMP		4	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	16	7	
04.2.1.3	Peeled, cut or shredded fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		4	
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		4	
06.4.1	Fresh pastas and noodles and like products	50000 mg/kg		4	
06.4.2	Dried pastas and noodles and like products	50000 mg/kg		4	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	15000 mg/kg		7	
08.1.2	Fresh meat, poultry, and game, comminuted	GMP		7	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	

SODIUM CARBOXYMETHYL CELLULOSE (CELLULOSE GUM)

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41 & 61	7	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
10.2.1	Liquid egg products	GMP		4	
10.2.2	Frozen egg products	GMP		4	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	5000 mg/kg		7	
12.1.2	Salt Substitutes	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	
13.2	Complementary foods for infants and young children	GMP		4	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		7	

SODIUM DIACETATE

INS 262(ii)

Sodium diacetate

Functional Class: Acidity regulator, Preservative, Sequestrant

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
02.1.2	Vegetable oils and fats	1000 mg/kg		7	
02.1.3	Lard, tallow, fish oil, and other animal fats	1000 mg/kg		7	
02.2.2	Fat spreads, dairy fat spreads and blended spreads	1000 mg/kg		4	
02.2.2	Fat spreads, dairy fat spreads and blended spreads	GMP		7	
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	GMP		7	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	GMP		7	
04.1.2.3	Fruit in vinegar, oil, or brine	GMP		7	
04.1.2.4	Canned or bottled (pasteurized) fruit	GMP		7	
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	GMP		7	
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	GMP		7	
05.1.3	Cocoa-based spreads, including fillings	GMP		4	
05.1.5	Imitation chocolate, chocolate substitute products	GMP		4	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	3000 mg/kg		7	
06.4.2	Dried pastas and noodles and like products	3000 mg/kg		7	

SODIUM DIACETATE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
06.4.3	Pre-cooked pastas and noodles and like products	3000 mg/kg		7	
07.0	Bakery wares	4000 mg/kg		7	
08.2	Processed meat, poultry, and game products in whole pieces or cuts	1000 mg/kg		7	
08.3	Processed comminuted meat, poultry, and game products	1000 mg/kg		7	
09.2.4.1	Cooked fish and fish products	3000 mg/kg		7	
10.2	Egg products	1000 mg/kg		7	
10.3	Preserved eggs, including alkaline, salted, and canned eggs	1000 mg/kg		7	
10.4	Egg-based desserts (e.g., custard)	2000 mg/kg		7	
12.5	Soups and broths	500 mg/kg		7	
12.6	Sauces and like products	2500 mg/kg		7	
12.7	Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	3000 mg/kg		7	
13.2	Complementary foods for infants and young children	GMP		7	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	150 mg/kg		7	
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	500 mg/kg		7	

SODIUM DIHYDROGEN CITRATE

INS 331(i) Sodium dihydrogen citrate Functional Class: Acidity regulator, Emulsifier, Sequestrant, Stabilizer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1.2	Buttermilk (plain)	GMP	261	Adopted	2013
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.2.2	Renneted milk (plain)	GMP		Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
01.8.2	Dried whey and whey products, excluding whey cheeses	GMP		Adopted	2006
02.1.1	Butter oil, anhydrous milkfat, ghee	GMP	171	Adopted	2006
02.1.2	Vegetable oils and fats	GMP		7	
02.1.3	Lard, tallow, fish oil, and other animal fats	GMP		7	
04.2.1	Fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP	16	7	
08.1.2	Fresh meat, poultry, and game, comminuted	GMP		7	

SODIUM DIHYDROGEN CITRATE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	61	Adopted	2013
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	61	Adopted	2013
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16	Adopted	2013
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		Adopted	2013
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	266 & 267	Adopted	2013
10.2.1	Liquid egg products	GMP		Adopted	2013
10.2.2	Frozen egg products	GMP		Adopted	2013
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	GMP	258	Adopted	2013
12.1.2	Salt Substitutes	GMP		Adopted	2013
12.2.1	Herbs and spices	GMP	51	7	
13.1.1	Infant formulae	GMP	72	4	
13.1.2	Follow-up formulae	GMP	72	Adopted	2013
13.1.3	Formulae for special medical purposes for infants	GMP	72	4	
13.2	Complementary foods for infants and young children	5000 mg/kg	238	Adopted	2013
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160	Adopted	2013

SODIUM DL-MALATE

INS 350(ii) Sodium DL-malate Functional Class: Acidity regulator, Humectant

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP		Adopted	2013
06.4.1	Fresh pastas and noodles and like products	GMP		Adopted	2013
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
12.2.1	Herbs and spices	GMP	51	4	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160	Adopted	2013

SODIUM ERYTHORBATE (SODIUM ISOASCORBATE)

INS 316 Sodium erythorbate (Sodium isoascorbate) Functional Class: Antioxidant

SODIUM ERYTHORBATE (SODIUM ISOASCORBATE)

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
02.1.2	Vegetable oils and fats	100 mg/kg		7	
02.1.3	Lard, tallow, fish oil, and other animal fats	100 mg/kg		7	
04.1.1.3	Peeled or cut fresh fruit	GMP		7	
04.2.1.3	Peeled, cut or shredded fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP		4	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	1500 mg/kg		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		7	
14.2.3	Grape wines	GMP		7	

SODIUM FUMARATES

INS 365 Sodium fumarates Functional Class: Acidity regulator

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP		Adopted	2013
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41	Adopted	2013
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16	Adopted	2013
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		Adopted	2013
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	266 & 267	Adopted	2013
12.1.2	Salt Substitutes	GMP		Adopted	2013
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160	Adopted	2013

SODIUM GLUCONATE

INS 576 Sodium gluconate Functional Class: Sequestrant, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
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SODIUM GLUCONATE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP		Adopted	2013
06.4.2	Dried pastas and noodles and like products	GMP		4	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
12.1.2	Salt Substitutes	GMP		4	
12.2.1	Herbs and spices	GMP	51	4	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		4	

SODIUM HYDROGEN CARBONATE

INS 500(ii) Sodium hydrogen carbonate Functional Class: Acidity regulator, Anticaking agent, Raising agent

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP		Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP		Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
01.8.2	Dried whey and whey products, excluding whey cheeses	GMP		Adopted	2006
02.1.3	Lard, tallow, fish oil, and other animal fats	1000 mg/kg		7	
02.2.1	Butter	GMP		Adopted	2008
06.2.1	Flours	45000 mg/kg		7	
06.4.1	Fresh pastas and noodles and like products	GMP		Adopted	2013
06.4.2	Dried pastas and noodles and like products	GMP	256	Adopted	2013
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP		7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41	Adopted	2013
13.1.1	Infant formulae	2000 mg/kg	55 & 72	Adopted	2013
13.1.2	Follow-up formulae	GMP	72	Adopted	2013
13.1.3	Formulae for special medical purposes for infants	2000 mg/kg	55 & 72	Adopted	2013
13.2	Complementary foods for infants and young children	GMP	240	Adopted	2013
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160	Adopted	2013

SODIUM HYDROXIDE

INS 524 Sodium hydroxide Functional Class: Acidity regulator

SODIUM HYDROXIDE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP		Adopted	2013
01.8.2	Dried whey and whey products, excluding whey cheeses	GMP		Adopted	2006
02.2.1	Butter	GMP		Adopted	2008
13.1.1	Infant formulae	2000 mg/kg	55 & 72	Adopted	2013
13.1.2	Follow-up formulae	GMP	72	Adopted	2013
13.1.3	Formulae for special medical purposes for infants	2000 mg/kg	55 & 72	Adopted	2013
13.2	Complementary foods for infants and young children	GMP	239	Adopted	2013

SODIUM LACTATE

INS 325 Sodium lactate Functional Class: Acidity regulator, Antioxidant, Bulking agent, Emulsifier, Humectant, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1.2	Buttermilk (plain)	GMP	261	Adopted	2013
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP		Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP		Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
02.1.3	Lard, tallow, fish oil, and other animal fats	GMP		7	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP		Adopted	2013
06.4.1	Fresh pastas and noodles and like products	GMP		Adopted	2013
06.4.2	Dried pastas and noodles and like products	GMP	256	Adopted	2013
08.1	Fresh meat, poultry, and game	20000 mg/kg		7	
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		4	
10.2.1	Liquid egg products	GMP		Adopted	2013
10.2.2	Frozen egg products	GMP		Adopted	2013
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160	Adopted	2013

SODIUM PROPIONATE

INS 281 Sodium propionate Functional Class: Preservative

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.6.6	Whey protein cheese	3000 mg/kg	70	Adopted	2006

SODIUM SESQUICARBONATE

SODIUM SESQUICARBONATE

INS 500(iii) Sodium sesquicarbonate Functional Class: Acidity regulator, Anticaking agent, Raising agent

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.4.1	Pasteurized cream (plain)	GMP		Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
01.8.2	Dried whey and whey products, excluding whey cheeses	GMP		Adopted	2006
02.1.3	Lard, tallow, fish oil, and other animal fats	GMP		7	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP		7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41	Adopted	2013

SORBATES

INS 200 Sorbic acid Functional Class: Preservative

INS 201 Sodium sorbate Functional Class: Preservative

INS 202 Potassium sorbate Functional Class: Preservative

INS 203 Calcium sorbate Functional Class: Preservative

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	1000 mg/kg	42 & 220	Adopted	2012
01.2.2	Renneted milk (plain)	1000 mg/kg	42	Adopted	2012
01.3.2	Beverage whiteners	200 mg/kg	42	Adopted	2009
01.6.1	Unripened cheese	1000 mg/kg	42 & 223	Adopted	2012
01.6.2	Ripened cheese	3000 mg/kg	42	Adopted	2012
01.6.3	Whey cheese	1000 mg/kg	42	Adopted	2006
01.6.4	Processed cheese	3000 mg/kg	42	Adopted	2012
01.6.5	Cheese analogues	3000 mg/kg	3 & 42	Adopted	2010
01.6.6	Whey protein cheese	3000 mg/kg	42	Adopted	2006
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	1000 mg/kg	42	Adopted	2012
02.2.2	Fat spreads, dairy fat spreads and blended spreads	2000 mg/kg	42	Adopted	2009
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	1000 mg/kg	42	Adopted	2009
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	1000 mg/kg	42	Adopted	2010
04.1.2.2	Dried fruit	500 mg/kg	42	Adopted	2012
04.1.2.3	Fruit in vinegar, oil, or brine	1000 mg/kg	42	Adopted	2009
04.1.2.5	Jams, jellies, marmelades	1000 mg/kg	42	Adopted	2012

SORBATES

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.1.2.6	Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5	1000 mg/kg	42	Adopted	2009
04.1.2.7	Candied fruit	500 mg/kg	42	Adopted	2012
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	1000 mg/kg	42	Adopted	2012
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	1000 mg/kg	42	Adopted	2012
04.1.2.10	Fermented fruit products	1000 mg/kg	42	Adopted	2009
04.1.2.11	Fruit fillings for pastries	1000 mg/kg	42	Adopted	2009
04.1.2.12	Cooked fruit	1200 mg/kg	42	Adopted	2009
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	1000 mg/kg	42	Adopted	2012
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g., peanut butter)	1000 mg/kg	42	Adopted	2012
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	1000 mg/kg	42	Adopted	2012
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	1000 mg/kg	42	Adopted	2012
04.2.2.8	Cooked or fried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	1000 mg/kg	42 & 221	Adopted	2012
05.1.2	Cocoa mixes (syrups)	1000 mg/kg	42	Adopted	2012
05.1.3	Cocoa-based spreads, including fillings	1000 mg/kg	42	Adopted	2012
05.1.5	Imitation chocolate, chocolate substitute products	1500 mg/kg	42	Adopted	2009
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	1500 mg/kg	42	Adopted	2012
05.3	Chewing gum	1500 mg/kg	42	Adopted	2009
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	1000 mg/kg	42	Adopted	2012
06.4.3	Pre-cooked pastas and noodles and like products	2000 mg/kg	42 & 211	Adopted	2012
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	1000 mg/kg	42	Adopted	2012
06.6	Batters (e.g., for breading or batters for fish or poultry)	2000 mg/kg	42	Adopted	2009
07.0	Bakery wares	1000 mg/kg	42	Adopted	2012
08.2	Processed meat, poultry, and game products in whole pieces or cuts	2000 mg/kg	42	6	
08.3	Processed comminuted meat, poultry, and game products	2000 mg/kg	42	6	
08.4	Edible casings (e.g., sausage casings)	200 mg/kg	42 & 222	7	
09.2.4.1	Cooked fish and fish products	2000 mg/kg	42	Adopted	2009
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	2000 mg/kg	42 & 82	Adopted	2009

SORBATES

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	1000 mg/kg	42	Adopted	2012
09.3	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms	1000 mg/kg	42	Adopted	2012
10.2.1	Liquid egg products	5000 mg/kg	42	Adopted	2009
10.2.2	Frozen egg products	1000 mg/kg	42	Adopted	2009
10.2.3	Dried and/or heat coagulated egg products	1000 mg/kg	42	Adopted	2009
10.4	Egg-based desserts (e.g., custard)	1000 mg/kg	42	Adopted	2009
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	1000 mg/kg	42	Adopted	2009
11.6	Table-top sweeteners, including those containing high-intensity sweeteners	1000 mg/kg	42 & 192	Adopted	2010
12.2	Herbs, spices, seasonings and condiments (e.g., seasoning for instant noodles)	1000 mg/kg	42	Adopted	2009
12.4	Mustards	1000 mg/kg	42	Adopted	2012
12.5	Soups and broths	1000 mg/kg	42	Adopted	2012
12.6	Sauces and like products	1000 mg/kg	42 & 127	Adopted	2012
12.7	Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	1500 mg/kg	42	Adopted	2009
12.9.1	Fermented soybean paste (e.g., miso)	1000 mg/kg	42	Adopted	2010
12.9.2.1	Fermented soybean sauce	1000 mg/kg	42	Adopted	2010
12.9.2.3	Other soybean sauces	1000 mg/kg	42	Adopted	2010
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	1500 mg/kg	42	Adopted	2009
13.4	Dietetic formulae for slimming purposes and weight reduction	1500 mg/kg	42	Adopted	2009
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	1500 mg/kg	42	Adopted	2012
13.6	Food supplements	2000 mg/kg	42	Adopted	2012
14.1.2.1	Fruit juice	1000 mg/kg	42, 91 & 122	Adopted	2005
14.1.2.3	Concentrates for fruit juice	1000 mg/kg	42, 91, 122 & 127	Adopted	2005
14.1.3.1	Fruit nectar	1000 mg/kg	42, 91 & 122	Adopted	2005
14.1.3.3	Concentrates for fruit nectar	1000 mg/kg	42, 91, 122 & 127	Adopted	2005
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	500 mg/kg	42 & 127	Adopted	2012
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	500 mg/kg	42 & 160	Adopted	2012
14.2.2	Cider and perry	500 mg/kg	42	Adopted	2012
14.2.3	Grape wines	200 mg/kg	42	Adopted	2012
14.2.4	Wines (other than grape)	500 mg/kg	42	Adopted	2012
14.2.5	Mead	200 mg/kg	42	Adopted	2012

SORBATES

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	500 mg/kg	42 & 224	Adopted	2012
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	1000 mg/kg	42	Adopted	2009
15.2	Processed nuts, including coated nuts and nut mixtures (with e.g., dried fruit)	1000 mg/kg	42	Adopted	2009

SORBITAN ESTERS OF FATTY ACIDS

INS 491	Sorbitan monostearate	Functional Class: Emulsifier
INS 492	Sorbitan tristearate	Functional Class: Emulsifier
INS 493	Sorbitan monolaurate	Functional Class: Emulsifier, Stabilizer
INS 494	Sorbitan monooleate	Functional Class: Emulsifier, Stabilizer
INS 495	Sorbitan monopalmitate	Functional Class: Emulsifier

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	5000 mg/kg		7	
01.3.2	Beverage whiteners	5000 mg/kg		7	
01.4.4	Cream analogues	5000 mg/kg		7	
01.5.2	Milk and cream powder analogues	4000 mg/kg		7	
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	5000 mg/kg		7	
02.1.2	Vegetable oils and fats	10000 mg/kg		7	
02.1.3	Lard, tallow, fish oil, and other animal fats	10000 mg/kg		7	
02.2.2	Fat spreads, dairy fat spreads and blended spreads	20000 mg/kg		7	
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	10000 mg/kg		7	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	10000 mg/kg		7	
03.0	Edible ices, including sherbet and sorbet	1200 mg/kg		7	
04.1.1.2	Surface-treated fresh fruit	5000 mg/kg	16	4	
04.1.2.5	Jams, jellies, marmelades	25 mg/kg		7	
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	5000 mg/kg		7	
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	5000 mg/kg		7	
04.1.2.11	Fruit fillings for pastries	10000 mg/kg		7	
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	5000 mg/kg		7	

SORBITAN ESTERS OF FATTY ACIDS

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	5000 mg/kg		7	
05.0	Confectionery	20000 mg/kg		7	
06.4.2	Dried pastas and noodles and like products	5000 mg/kg	11	4	
06.4.3	Pre-cooked pastas and noodles and like products	5000 mg/kg	11	4	
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	5000 mg/kg		7	
07.1.1	Breads and rolls	10000 mg/kg		7	
07.1.2	Crackers, excluding sweet crackers	5000 mg/kg	11	7	
07.1.3	Other ordinary bakery products (e.g., bagels, pita, English muffins)	10000 mg/kg	11	7	
07.1.4	Bread-type products, including bread stuffing and bread crumbs	5000 mg/kg	11	7	
07.1.5	Steamed breads and buns	5000 mg/kg	11	7	
07.1.6	Mixes for bread and ordinary bakery wares	5000 mg/kg	11	7	
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	10000 mg/kg		7	
08.4	Edible casings (e.g., sausage casings)	3500 mg/kg		7	
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	1000 mg/kg		4	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	100 mg/kg		4	
10.2	Egg products	500 mg/kg		7	
10.4	Egg-based desserts (e.g., custard)	5000 mg/kg		7	
12.5.2	Mixes for soups and broths	250 mg/kg	127	7	
12.6.1	Emulsified sauces and dips (e.g., mayonnaise, salad dressing, onion dip)	10000 mg/kg		7	
12.6.2	Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy)	4000 mg/kg		7	
12.6.3	Mixes for sauces and gravies	5000 mg/kg		7	
12.8	Yeast and like products	15000 mg/kg	104	7	
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	5000 mg/kg		7	
13.4	Dietetic formulae for slimming purposes and weight reduction	5000 mg/kg		7	
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	5000 mg/kg		4	
13.6	Food supplements	20000 mg/kg		4	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	5000 mg/kg		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	5000 mg/kg		7	
14.2.3	Grape wines	1000 mg/kg		4	

SORBITAN ESTERS OF FATTY ACIDS

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	5000 mg/kg		4	

SORBITOL

INS 420(i) Sorbitol Functional Class: Bulking agent, Humectant, Sequestrant, Stabilizer, Sweetener, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP		7	
01.2.2	Renneted milk (plain)	GMP		7	
01.4.1	Pasteurized cream (plain)	200000 mg/kg		4	
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	200000 mg/kg		4	
04.1.1.2	Surface-treated fresh fruit	GMP	16	7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	16	7	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	70000 mg/kg		4	
06.4.1	Fresh pastas and noodles and like products	35000 mg/kg		4	
06.4.2	Dried pastas and noodles and like products	GMP		7	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP	16	7	
08.1.2	Fresh meat, poultry, and game, comminuted	5000 mg/kg		7	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg		4	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.4.1	Cooked fish and fish products	35000 mg/kg		7	
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	GMP		7	
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
10.2.2	Frozen egg products	GMP		7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	GMP		7	
12.1.2	Salt Substitutes	GMP		7	

SORBITOL

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
12.2.1	Herbs and spices	GMP	51	7	
13.2	Complementary foods for infants and young children	GMP		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		4	

SORBITOL SYRUP

INS 420(ii) Sorbitol syrup

Functional Class: Bulking agent, Humectant, Sequestrant, Stabilizer, Sweetener, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP		7	
01.2.2	Renneted milk (plain)	GMP		7	
01.4.1	Pasteurized cream (plain)	200000 mg/kg		4	
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	200000 mg/kg		4	
04.1.1.2	Surface-treated fresh fruit	GMP	16	7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	16	7	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	70000 mg/kg		4	
06.4.1	Fresh pastas and noodles and like products	35000 mg/kg		4	
06.4.2	Dried pastas and noodles and like products	GMP		7	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP	16	7	
08.1.2	Fresh meat, poultry, and game, comminuted	5000 mg/kg		7	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2	Processed fish and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg		4	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.4.1	Cooked fish and fish products	35000 mg/kg		7	
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	GMP		7	
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
10.2.2	Frozen egg products	GMP		7	

SORBITOL SYRUP

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	GMP		7	
12.1.2	Salt Substitutes	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	
13.2	Complementary foods for infants and young children	GMP		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		4	

STANNOUS CHLORIDE

INS 512 Stannous chloride Functional Class: Antioxidant, Colour retention agent

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.1.2.4	Canned or bottled (pasteurized) fruit	20 mg/kg	43	Adopted	2001
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	25 mg/kg	43	Adopted	2001
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	20 mg/kg	43	Adopted	2001

STARCH ACETATE

INS 1420 Starch acetate Functional Class: Emulsifier, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235	Adopted	2013
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.2.2	Renneted milk (plain)	GMP		Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41	7	
13.2	Complementary foods for infants and young children	50000 mg/kg		7	

STARCH SODIUM OCTENYL SUCCINATE

INS 1450 Starch sodium octenyl succinate Functional Class: Emulsifier, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235	Adopted	2013
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.2.2	Renneted milk (plain)	GMP		Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013

STARCH SODIUM OCTENYL SUCCINATE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
13.2	Complementary foods for infants and young children	50000 mg/kg		7	

STARCHES, ENZYME TREATED

INS 1405 Starches, enzyme treated Functional Class: Emulsifier, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235	Adopted	2013
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.2.2	Renneted milk (plain)	GMP		Adopted	2013
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	10000 mg/kg		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	10000 mg/kg		7	

STEAROYL LACTYLATES

INS 481(i) Sodium stearoyl lactylate Functional Class: Emulsifier, Flour treatment agent, Foaming agent, Stabilizer

INS 482(i) Calcium stearoyl lactylate Functional Class: Emulsifier, Flour treatment agent, Foaming agent, Stabilizer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	5000 mg/kg		7	
01.3.2	Beverage whiteners	5000 mg/kg		7	
01.4.4	Cream analogues	10000 mg/kg	2	7	
01.5.1	Milk powder and cream powder (plain)	2000 mg/kg		7	
01.6.5	Cheese analogues	2000 mg/kg		7	
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	5000 mg/kg		7	
02.1.2	Vegetable oils and fats	3000 mg/kg		7	
02.1.3	Lard, tallow, fish oil, and other animal fats	3000 mg/kg		7	
02.2.2	Fat spreads, dairy fat spreads and blended spreads	10000 mg/kg		Adopted	2009
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	20000 mg/kg		7	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	5000 mg/kg		7	
03.0	Edible ices, including sherbet and sorbet	5000 mg/kg	15	7	
04.1.2.7	Candied fruit	2000 mg/kg		7	
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	200 mg/kg		7	

STEAROYL LACTYLATES

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	10000 mg/kg		7	
04.1.2.11	Fruit fillings for pastries	5000 mg/kg		7	
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	5000 mg/kg	76	7	
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g., peanut butter)	5000 mg/kg	2	7	
05.1.1	Cocoa mixes (powders) and cocoa mass/cake	2000 mg/kg		7	
05.1.3	Cocoa-based spreads, including fillings	5000 mg/kg		7	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	5000 mg/kg		7	
05.3	Chewing gum	20000 mg/kg		7	
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	5000 mg/kg		7	
06.1	Whole, broken, or flaked grain, including rice	4000 mg/kg		7	
06.2.1	Flours	5000 mg/kg		7	
06.3	Breakfast cereals, including rolled oats	5000 mg/kg		7	
06.4.2	Dried pastas and noodles and like products	5000 mg/kg		4	
06.4.3	Pre-cooked pastas and noodles and like products	5000 mg/kg		4	
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	6000 mg/kg		7	
06.6	Batters (e.g., for breading or batters for fish or poultry)	7500 mg/kg	2	7	
07.1	Bread and ordinary bakery wares	5000 mg/kg		7	
07.2.1	Cakes, cookies and pies (e.g., fruit-filled or custard types)	5500 mg/kg		7	
07.2.2	Other fine bakery products (e.g., doughnuts, sweet rolls, scones, and muffins)	5000 mg/kg		7	
07.2.3	Mixes for fine bakery wares (e.g., cakes, pancakes)	8000 mg/kg		7	
08.2.2	Heat-treated processed meat, poultry, and game products in whole pieces or cuts	4000 mg/kg		7	
08.3.2	Heat-treated processed comminuted meat, poultry, and game products	4000 mg/kg		7	
10.2.1	Liquid egg products	500 mg/kg		7	
10.2.2	Frozen egg products	500 mg/kg		7	
10.2.3	Dried and/or heat coagulated egg products	5000 mg/kg		7	
10.4	Egg-based desserts (e.g., custard)	5000 mg/kg		7	
12.4	Mustards	2500 mg/kg		7	
12.6.1	Emulsified sauces and dips (e.g., mayonnaise, salad dressing, onion dip)	10000 mg/kg		7	
12.6.2	Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy)	2500 mg/kg		7	
12.6.3	Mixes for sauces and gravies	2500 mg/kg		7	
12.6.4	Clear sauces (e.g., fish sauce)	2500 mg/kg		7	

STEAROYL LACTYLATES

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	2000 mg/kg		7	
13.4	Dietetic formulae for slimming purposes and weight reduction	2000 mg/kg		7	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	2000 mg/kg		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	2000 mg/kg	2	7	
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	8000 mg/kg		7	
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	8000 mg/kg		7	
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	5000 mg/kg		7	

STEARYL CITRATE

INS 484

Stearyl citrate

Functional Class: Antioxidant, Emulsifier, Sequestrant

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
02.1.2	Vegetable oils and fats	GMP		Adopted	2006
02.1.3	Lard, tallow, fish oil, and other animal fats	GMP		Adopted	2006
02.2.2	Fat spreads, dairy fat spreads and blended spreads	100 mg/kg	15	Adopted	2012
05.3	Chewing gum	15000 mg/kg		Adopted	1999
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	500 mg/kg		Adopted	1999

STEVIOL GLYCOSIDES

INS 960

Steviol glycosides

Functional Class: Sweetener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	200 mg/kg	26 & 201	Adopted	2011
01.5.2	Milk and cream powder analogues	330 mg/kg	26 & 201	Adopted	2011
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	330 mg/kg	26	Adopted	2011
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	330 mg/kg	26	Adopted	2011
03.0	Edible ices, including sherbet and sorbet	270 mg/kg	26	Adopted	2011
04.1.2.1	Frozen fruit	40 mg/kg	26 & 161	3	
04.1.2.3	Fruit in vinegar, oil, or brine	100 mg/kg	26	Adopted	2011
04.1.2.4	Canned or bottled (pasteurized) fruit	330 mg/kg	26	Adopted	2011
04.1.2.5	Jams, jellies, marmelades	360 mg/kg	26	Adopted	2011
04.1.2.6	Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5	330 mg/kg	26	Adopted	2011

STEVIOL GLYCOSIDES

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.1.2.7	Candied fruit	40 mg/kg	26	Adopted	2011
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	330 mg/kg	26	Adopted	2011
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	350 mg/kg	26	Adopted	2011
04.1.2.10	Fermented fruit products	115 mg/kg	26	Adopted	2011
04.1.2.11	Fruit fillings for pastries	330 mg/kg	26	Adopted	2011
04.1.2.12	Cooked fruit	40 mg/kg	26	Adopted	2011
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	40 mg/kg	26	3	
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	40 mg/kg	26	Adopted	2011
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	330 mg/kg	26	Adopted	2011
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	70 mg/kg	26	Adopted	2011
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g., peanut butter)	330 mg/kg	26	Adopted	2011
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	165 mg/kg	26	Adopted	2011
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	200 mg/kg	26	Adopted	2011
04.2.2.8	Cooked or fried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	40 mg/kg	26	Adopted	2011
05.1.1	Cocoa mixes (powders) and cocoa mass/cake	350 mg/kg	26	3	
05.1.2	Cocoa mixes (syrups)	350 mg/kg	26	3	
05.1.3	Cocoa-based spreads, including fillings	350 mg/kg	26	3	
05.1.4	Cocoa and chocolate products	350 mg/kg	26	3	
05.1.5	Imitation chocolate, chocolate substitute products	350 mg/kg	26	3	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	700 mg/kg	26 & 199	Adopted	2012
05.3	Chewing gum	3500 mg/kg	26	Adopted	2011
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	330 mg/kg	26	3	
06.3	Breakfast cereals, including rolled oats	350 mg/kg	26	Adopted	2011
06.4.2	Dried pastas and noodles and like products	200 mg/kg	26	3	
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	165 mg/kg	26	Adopted	2011

STEVIOL GLYCOSIDES

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
06.8.1	Soybean-based beverages	200 mg/kg	26	Adopted	2011
07.1	Bread and ordinary bakery wares	50 mg/kg	26	3	
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	350 mg/kg	26	3	
08.2	Processed meat, poultry, and game products in whole pieces or cuts	80 mg/kg	26 & 200	3	
08.3.2	Heat-treated processed comminuted meat, poultry, and game products	100 mg/kg	26 & 202	Adopted	2011
09.2.4.1	Cooked fish and fish products	70 mg/kg	26 & 208	3	
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	165 mg/kg	26 & 208	3	
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	250 mg/kg		4	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	165 mg/kg	26 & 208	3	
09.3.1	Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly	100 mg/kg	26 & 144	Adopted	2011
09.3.2	Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine	120 mg/kg		4	
09.3.2	Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine	165 mg/kg	26	Adopted	2011
09.3.3	Salmon substitutes, caviar, and other fish roe products	100 mg/kg	26	Adopted	2011
09.3.3	Salmon substitutes, caviar, and other fish roe products	120 mg/kg		4	
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	100 mg/kg	26	Adopted	2011
10.4	Egg-based desserts (e.g., custard)	330 mg/kg	26	Adopted	2011
11.6	Table-top sweeteners, including those containing high-intensity sweeteners	GMP	26	Adopted	2011
12.2.2	Seasonings and condiments	30 mg/kg	26	Adopted	2011
12.4	Mustards	130 mg/kg	26	Adopted	2011
12.5	Soups and broths	50 mg/kg	26	Adopted	2011
12.6.1	Emulsified sauces and dips (e.g., mayonnaise, salad dressing, onion dip)	350 mg/kg	26	Adopted	2011
12.6.2	Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy)	350 mg/kg	26	Adopted	2011
12.6.3	Mixes for sauces and gravies	350 mg/kg	26 & 127	Adopted	2011
12.6.4	Clear sauces (e.g., fish sauce)	350 mg/kg	26	Adopted	2011
12.7	Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	115 mg/kg	26	Adopted	2011
12.9.2.1	Fermented soybean sauce	30 mg/kg	26	Adopted	2011
12.9.2.2	Non-fermented soybean sauce	165 mg/kg	26	Adopted	2011
12.9.2.3	Other soybean sauces	165 mg/kg	26	Adopted	2011
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	350 mg/kg	26	Adopted	2011
13.4	Dietetic formulae for slimming purposes and weight reduction	270 mg/kg	26	Adopted	2011

STEVIOL GLYCOSIDES

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	660 mg/kg	26 & 198	Adopted	2011
13.6	Food supplements	2500 mg/kg	26 & 203	Adopted	2011
14.1.3	Fruit and vegetable nectars	200 mg/kg	26	Adopted	2011
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	200 mg/kg	26	Adopted	2011
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	200 mg/kg	26 & 160	Adopted	2011
14.2.1	Beer and malt beverages	50 mg/kg	26	3	
14.2.2	Cider and perry	50 mg/kg	26	3	
14.2.3	Grape wines	160 mg/kg	26	3	
14.2.4	Wines (other than grape)	160 mg/kg	26	3	
14.2.5	Mead	160 mg/kg	26	3	
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	160 mg/kg	26	3	
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	200 mg/kg	26	Adopted	2011
15.0	Ready-to-eat savouries	170 mg/kg	26	Adopted	2011

SUCRALOSE (TRICHLOROGALACTOSUCROSE)

INS 955 Sucralose Functional Class: Sweetener
(Trichlorogalactosucrose)

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	300 mg/kg	161	Adopted	2007
01.3.2	Beverage whiteners	580 mg/kg	161	Adopted	2008
01.4.4	Cream analogues	580 mg/kg	161	Adopted	2008
01.5.2	Milk and cream powder analogues	400 mg/kg		3	
01.6.5	Cheese analogues	500 mg/kg	161	Adopted	2008
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	400 mg/kg	161	Adopted	2007
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	400 mg/kg	161	Adopted	2007
03.0	Edible ices, including sherbet and sorbet	320 mg/kg	161	Adopted	2007
04.1.2.1	Frozen fruit	400 mg/kg	161	Adopted	2008
04.1.2.2	Dried fruit	1500 mg/kg	161	Adopted	2008
04.1.2.3	Fruit in vinegar, oil, or brine	180 mg/kg	144	Adopted	2007
04.1.2.4	Canned or bottled (pasteurized) fruit	400 mg/kg	161	Adopted	2007
04.1.2.5	Jams, jellies, marmelades	400 mg/kg	161	Adopted	2007
04.1.2.6	Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5	400 mg/kg	161	Adopted	2007

SUCRALOSE (TRICHLOROGALACTOSUCROSE)

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.1.2.7	Candied fruit	800 mg/kg	161	Adopted	2007
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	400 mg/kg	161	Adopted	2007
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	400 mg/kg	161	Adopted	2007
04.1.2.10	Fermented fruit products	150 mg/kg	161	Adopted	2007
04.1.2.11	Fruit fillings for pastries	400 mg/kg	161	Adopted	2007
04.1.2.12	Cooked fruit	150 mg/kg	161	Adopted	2008
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	150 mg/kg	161	Adopted	2008
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	580 mg/kg	161	Adopted	2008
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	400 mg/kg		Adopted	2007
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	580 mg/kg	161	Adopted	2008
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g., peanut butter)	400 mg/kg	161 & 169	Adopted	2007
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	400 mg/kg	161	Adopted	2007
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	580 mg/kg	161	Adopted	2008
04.2.2.8	Cooked or fried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	150 mg/kg	144 & 161	Adopted	2008
05.1.1	Cocoa mixes (powders) and cocoa mass/cake	580 mg/kg	97	Adopted	2007
05.1.2	Cocoa mixes (syrops)	400 mg/kg	97 & 161	Adopted	2007
05.1.3	Cocoa-based spreads, including fillings	400 mg/kg	161 & 169	Adopted	2007
05.1.4	Cocoa and chocolate products	800 mg/kg	161	Adopted	2007
05.1.5	Imitation chocolate, chocolate substitute products	800 mg/kg	161	Adopted	2007
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	1800 mg/kg	161 & 164	Adopted	2008
05.3	Chewing gum	5000 mg/kg	161	Adopted	2007
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	1000 mg/kg	161	Adopted	2008
06.3	Breakfast cereals, including rolled oats	1000 mg/kg	161	Adopted	2008
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	400 mg/kg	161	Adopted	2007
06.7	Pre-cooked or processed rice products, including rice cakes (Oriental type only)	200 mg/kg	72	Adopted	2007

SUCRALOSE (TRICHLOROGALACTOSUCROSE)

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
06.8.1	Soybean-based beverages	400 mg/kg		Adopted	2012
07.1	Bread and ordinary bakery wares	650 mg/kg	161	Adopted	2008
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	700 mg/kg	161 & 165	Adopted	2008
09.3	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms	120 mg/kg	144	Adopted	2007
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	120 mg/kg	144	Adopted	2007
10.4	Egg-based desserts (e.g., custard)	400 mg/kg	161	Adopted	2007
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	1500 mg/kg	159 & 161	Adopted	2008
11.6	Table-top sweeteners, including those containing high-intensity sweeteners	GMP		Adopted	2007
12.2.1	Herbs and spices	400 mg/kg	161	Adopted	2008
12.2.2	Seasonings and condiments	700 mg/kg	161	Adopted	2008
12.3	Vinegars	400 mg/kg	161	Adopted	2008
12.4	Mustards	140 mg/kg		Adopted	2007
12.5	Soups and broths	600 mg/kg	161	Adopted	2008
12.6	Sauces and like products	450 mg/kg	127	Adopted	2007
12.7	Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	1250 mg/kg	161 & 169	Adopted	2007
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	400 mg/kg		Adopted	2007
13.4	Dietetic formulae for slimming purposes and weight reduction	320 mg/kg		Adopted	2007
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	400 mg/kg		Adopted	2007
13.6	Food supplements	2400 mg/kg		Adopted	2007
14.1.3.1	Fruit nectar	300 mg/kg		Adopted	2005
14.1.3.2	Vegetable nectar	300 mg/kg	161	Adopted	2007
14.1.3.3	Concentrates for fruit nectar	300 mg/kg	127	Adopted	2005
14.1.3.4	Concentrates for vegetable nectar	300 mg/kg	127 & 161	Adopted	2007
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	300 mg/kg	127 & 161	Adopted	2007
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	300 mg/kg	160 & 161	Adopted	2007
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	700 mg/kg	161	Adopted	2008
15.0	Ready-to-eat savouries	1000 mg/kg	161	Adopted	2008

SUCROGLYCERIDES

INS 474

Sucroglycerides

Functional Class: Emulsifier

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
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SUCROGLYCERIDES

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	5000 mg/kg		Adopted	2009
01.3.2	Beverage whiteners	20000 mg/kg		Adopted	2010
01.5.1	Milk powder and cream powder (plain)	10000 mg/kg		Adopted	2009
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	5000 mg/kg		Adopted	2009
02.2.2	Fat spreads, dairy fat spreads and blended spreads	10000 mg/kg	102	Adopted	2010
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	10000 mg/kg	102	Adopted	2009
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	5000 mg/kg		Adopted	2009
03.0	Edible ices, including sherbet and sorbet	5000 mg/kg		Adopted	2009
04.1.1.2	Surface-treated fresh fruit	GMP		Adopted	2009
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	5000 mg/kg		Adopted	2009
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	5000 mg/kg		Adopted	2009
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	5000 mg/kg		Adopted	2009
05.3	Chewing gum	10000 mg/kg		Adopted	2009
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	5000 mg/kg		Adopted	2009
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	10000 mg/kg		Adopted	2009
08.2.2	Heat-treated processed meat, poultry, and game products in whole pieces or cuts	5000 mg/kg	15	Adopted	2009
08.3.2	Heat-treated processed comminuted meat, poultry, and game products	5000 mg/kg	15	Adopted	2009
10.4	Egg-based desserts (e.g., custard)	5000 mg/kg		Adopted	2009
12.5	Soups and broths	2000 mg/kg		Adopted	2009
12.6	Sauces and like products	10000 mg/kg		Adopted	2009
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	5000 mg/kg		Adopted	2009
13.4	Dietetic formulae for slimming purposes and weight reduction	5000 mg/kg		Adopted	2009
13.6	Food supplements	2500 mg/kg		Adopted	2012
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	200 mg/kg	219	Adopted	2012
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	1000 mg/kg	176	Adopted	2009
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	5000 mg/kg		Adopted	2009
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	5000 mg/kg		Adopted	2012

SUCROSE ACETATE ISOBUTYRATE

SUCROSE ACETATE ISOBUTYRATE

INS 444 Sucrose acetate isobutyrate Functional Class: Emulsifier, Stabilizer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	500 mg/kg		Adopted	1999

SUCROSE ESTERS OF FATTY ACIDS

INS 473 Sucrose esters of fatty acids Functional Class: Emulsifier, Stabilizer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	5000 mg/kg		7	
01.3.2	Beverage whiteners	20000 mg/kg		7	
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	10000 mg/kg		4	
01.4.4	Cream analogues	10000 mg/kg		4	
01.5.1	Milk powder and cream powder (plain)	10000 mg/kg		7	
01.5.2	Milk and cream powder analogues	10000 mg/kg		7	
01.6.4	Processed cheese	10000 mg/kg		7	
01.6.5	Cheese analogues	10000 mg/kg		7	
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	10000 mg/kg		7	
02.1.2	Vegetable oils and fats	10000 mg/kg		7	
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	10000 mg/kg		7	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	10000 mg/kg		7	
03.0	Edible ices, including sherbet and sorbet	5000 mg/kg		7	
04.1.1.2	Surface-treated fresh fruit	1000 mg/kg		4	
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	1500 mg/kg		7	
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	5000 mg/kg		7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	1000 mg/kg		4	
04.2.1.3	Peeled, cut or shredded fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	3000 mg/kg		7	
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	5000 mg/kg		7	
05.1	Cocoa products and chocolate products including imitations and chocolate substitutes	10000 mg/kg		7	

SUCROSE ESTERS OF FATTY ACIDS

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	20000 mg/kg		7	
05.3	Chewing gum	15000 mg/kg		7	
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	10000 mg/kg		7	
06.3	Breakfast cereals, including rolled oats	10000 mg/kg		7	
06.4	Pastas and noodles and like products (e.g., rice paper, rice vermicelli, soybean pastas and noodles)	2000 mg/kg		4	
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	10000 mg/kg		7	
06.6	Batters (e.g., for breading or batters for fish or poultry)	10000 mg/kg		7	
06.7	Pre-cooked or processed rice products, including rice cakes (Oriental type only)	10000 mg/kg		7	
06.8.1	Soybean-based beverages	500 mg/kg		4	
07.1	Bread and ordinary bakery wares	10000 mg/kg		4	
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	10000 mg/kg		7	
08.2.2	Heat-treated processed meat, poultry, and game products in whole pieces or cuts	5000 mg/kg	15	7	
08.3.2	Heat-treated processed comminuted meat, poultry, and game products	5000 mg/kg	15	7	
08.4	Edible casings (e.g., sausage casings)	5000 mg/kg		7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	10000 mg/kg		7	
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	10000 mg/kg		7	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	10000 mg/kg		7	
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	10000 mg/kg		4	
10.4	Egg-based desserts (e.g., custard)	5000 mg/kg		7	
12.5	Soups and broths	5000 mg/kg		7	
12.6	Sauces and like products	10000 mg/kg		7	
13.2	Complementary foods for infants and young children	5000 mg/kg		7	
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	5000 mg/kg		7	
13.4	Dietetic formulae for slimming purposes and weight reduction	5000 mg/kg		7	
13.6	Food supplements	50000 mg/kg		4	
14.1.4.1	Carbonated water-based flavoured drinks	1000 mg/kg		7	
14.1.4.2	Non-carbonated water-based flavoured drinks, including punches and ades	5000 mg/kg		7	
14.1.4.3	Concentrates (liquid or solid) for water-based flavoured drinks	10000 mg/kg		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	5000 mg/kg		7	
14.2.2	Cider and perry	5000 mg/kg		7	

SUCROSE ESTERS OF FATTY ACIDS

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
14.2.4	Wines (other than grape)	5000 mg/kg		7	
14.2.5	Mead	5000 mg/kg		7	
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	5000 mg/kg		7	
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	10000 mg/kg		7	

SUCROSE OLIGOESTERS, TYPE I AND TYPE II

INS 473a Sucrose Oligoesters, Type I and Type II Functional Class: Emulsifier, Stabilizer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.3.2	Beverage whiteners	5000 mg/kg		4	
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	5000 mg/kg		4	
01.4.4	Cream analogues	5000 mg/kg		4	
01.6.4	Processed cheese	1500 mg/kg		4	
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	5000 mg/kg		4	
02.1.2	Vegetable oils and fats	50000 mg/kg		4	
02.1.3	Lard, tallow, fish oil, and other animal fats	5000 mg/kg		4	
02.2.2	Fat spreads, dairy fat spreads and blended spreads	10000 mg/kg		4	
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	5000 mg/kg		4	
05.1.4	Cocoa and chocolate products	6000 mg/kg		4	
05.1.5	Imitation chocolate, chocolate substitute products	6000 mg/kg		4	
05.2.1	Hard candy	50000 mg/kg		4	
05.2.2	Soft candy	5000 mg/kg		4	
05.3	Chewing gum	50000 mg/kg		4	
06.8.8	Other soybean protein products	10000 mg/kg		4	
12.2.1	Herbs and spices	2000 mg/kg		4	
12.2.2	Seasonings and condiments	20000 mg/kg		4	
12.6.3	Mixes for sauces and gravies	5000 mg/kg		4	
13.6	Food supplements	50000 mg/kg		4	

SULFITES

SULFITES

INS 220	Sulfur dioxide	Functional Class: Antioxidant, Bleaching agent, Flour treatment agent, Preservative
INS 221	Sodium sulfite	Functional Class: Antioxidant, Bleaching agent, Flour treatment agent, Preservative
INS 222	Sodium hydrogen sulfite	Functional Class: Antioxidant, Preservative
INS 223	Sodium metabisulfite	Functional Class: Antioxidant, Bleaching agent, Flour treatment agent, Preservative
INS 224	Potassium metabisulfite	Functional Class: Antioxidant, Bleaching agent, Flour treatment agent, Preservative
INS 225	Potassium sulfite	Functional Class: Antioxidant, Preservative
INS 227	Calcium hydrogen sulfite	Functional Class: Antioxidant, Preservative
INS 228	Potassium bisulfite	Functional Class: Antioxidant, Preservative
INS 539	Sodium thiosulfate	Functional Class: Antioxidant, Sequestrant

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.1.1.2	Surface-treated fresh fruit	30 mg/kg	44 & 204	Adopted	2011
04.1.2.1	Frozen fruit	500 mg/kg	44 & 155	Adopted	2007
04.1.2.2	Dried fruit	1000 mg/kg	44, 135 & 218	Adopted	2006
04.1.2.3	Fruit in vinegar, oil, or brine	100 mg/kg	44	Adopted	2006
04.1.2.5	Jams, jellies, marmelades	100 mg/kg	44	Adopted	2008
04.1.2.7	Candied fruit	100 mg/kg	44	Adopted	2006
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	100 mg/kg	44 & 206	Adopted	2012
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	100 mg/kg	44	Adopted	2008
04.1.2.10	Fermented fruit products	100 mg/kg	44	Adopted	2008
04.1.2.11	Fruit fillings for pastries	100 mg/kg	44	Adopted	2006
04.2.1.3	Peeled, cut or shredded fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	50 mg/kg	44, 76 & 136	Adopted	2006
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	50 mg/kg	44, 76, 136 & 137	Adopted	2006
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	500 mg/kg	44 & 105	Adopted	2006
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	100 mg/kg	44	Adopted	2006
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	50 mg/kg	44	Adopted	2006
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g., peanut butter)	500 mg/kg	44 & 138	Adopted	2006

SULFITES

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	300 mg/kg	44 & 205	Adopted	2011
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	500 mg/kg	44	Adopted	2006
06.2.1	Flours	200 mg/kg	44	Adopted	2006
06.2.2	Starches	50 mg/kg	44	Adopted	2006
06.4.3	Pre-cooked pastas and noodles and like products	20 mg/kg	44	Adopted	2006
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	50 mg/kg	44	Adopted	2006
09.1.2	Fresh mollusks, crustaceans, and echinoderms	100 mg/kg	44	Adopted	2006
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	100 mg/kg	44 & 139	Adopted	2006
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	150 mg/kg	44	Adopted	2007
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	30 mg/kg	44	Adopted	2007
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	150 mg/kg	44 & 140	Adopted	2007
11.1.1	White sugar, dextrose anhydrous, dextrose monohydrate, fructose	15 mg/kg	44	Adopted	2005
11.1.2	Powdered sugar, powdered dextrose	15 mg/kg	44	Adopted	2005
11.1.3	Soft white sugar, soft brown sugar, glucose syrup, dried glucose syrup, raw cane sugar	20 mg/kg	44 & 111	Adopted	2006
11.1.5	Plantation or mill white sugar	70 mg/kg	44	Adopted	2005
11.2	Brown sugar excluding products of food category 11.1.3	40 mg/kg	44	Adopted	2006
11.3	Sugar solutions and syrups, also (partially) inverted, including treacle and molasses, excluding products of food category 11.1.3	70 mg/kg	44	Adopted	2007
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	40 mg/kg	44	Adopted	2006
12.2.1	Herbs and spices	150 mg/kg	44	Adopted	2006
12.2.2	Seasonings and condiments	200 mg/kg	44	Adopted	2006
12.3	Vinegars	100 mg/kg	44	Adopted	2006
12.4	Mustards	250 mg/kg	44 & 106	Adopted	2007
12.6	Sauces and like products	300 mg/kg	44	Adopted	2007
14.1.2.1	Fruit juice	50 mg/kg	44 & 122	Adopted	2005
14.1.2.2	Vegetable juice	50 mg/kg	44 & 122	Adopted	2006
14.1.2.3	Concentrates for fruit juice	50 mg/kg	44, 122 & 127	Adopted	2005
14.1.2.4	Concentrates for vegetable juice	50 mg/kg	44, 122 & 127	Adopted	2006
14.1.3.1	Fruit nectar	50 mg/kg	44 & 122	Adopted	2005

SULFITES

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
14.1.3.2	Vegetable nectar	50 mg/kg	44 & 122	Adopted	2006
14.1.3.3	Concentrates for fruit nectar	50 mg/kg	44, 122 & 127	Adopted	2005
14.1.3.4	Concentrates for vegetable nectar	50 mg/kg	44, 122 & 127	Adopted	2006
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	70 mg/kg	44, 127 & 143	Adopted	2006
14.2.1	Beer and malt beverages	50 mg/kg	44	Adopted	2006
14.2.2	Cider and perry	200 mg/kg	44	Adopted	2006
14.2.3	Grape wines	350 mg/kg	44 & 103	Adopted	2006
14.2.4	Wines (other than grape)	200 mg/kg	44	Adopted	2006
14.2.5	Mead	200 mg/kg	44	Adopted	2006
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	200 mg/kg	44	Adopted	2006
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	250 mg/kg	44	Adopted	2011
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	50 mg/kg	44	Adopted	2006

SUNSET YELLOW FCF

INS 110

Sunset yellow FCF

Functional Class: Colour

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	300 mg/kg	52	Adopted	2008
01.6.1	Unripened cheese	300 mg/kg	3	Adopted	2008
01.6.2.2	Rind of ripened cheese	300 mg/kg		Adopted	2008
01.6.4	Processed cheese	200 mg/kg	3	Adopted	2008
01.6.5	Cheese analogues	300 mg/kg	3	Adopted	2008
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	300 mg/kg	161	Adopted	2009
02.1.3	Lard, tallow, fish oil, and other animal fats	300 mg/kg	161	Adopted	2008
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	50 mg/kg		Adopted	2008
03.0	Edible ices, including sherbet and sorbet	50 mg/kg		Adopted	2008
04.1.2.5	Jams, jellies, marmelades	300 mg/kg	161	Adopted	2008
04.1.2.6	Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5	300 mg/kg	161	Adopted	2008
04.1.2.7	Candied fruit	200 mg/kg	161	Adopted	2008
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	300 mg/kg	161 & 182	Adopted	2008
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	50 mg/kg	161	Adopted	2008

SUNSET YELLOW FCF

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.1.2.11	Fruit fillings for pastries	300 mg/kg	161	Adopted	2008
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	300 mg/kg	4 & 16	Adopted	2008
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	50 mg/kg	92	Adopted	2008
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	200 mg/kg	92	Adopted	2008
05.1.4	Cocoa and chocolate products	400 mg/kg	183	Adopted	2008
05.1.5	Imitation chocolate, chocolate substitute products	300 mg/kg	161	Adopted	2008
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	300 mg/kg	161	Adopted	2008
05.3	Chewing gum	300 mg/kg		Adopted	2008
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	300 mg/kg		Adopted	2008
06.3	Breakfast cereals, including rolled oats	300 mg/kg	161	Adopted	2008
06.4.3	Pre-cooked pastas and noodles and like products	300 mg/kg	153	Adopted	2008
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	50 mg/kg		Adopted	2008
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	50 mg/kg		Adopted	2008
08.1	Fresh meat, poultry, and game	300 mg/kg	4 & 16	Adopted	2008
08.2	Processed meat, poultry, and game products in whole pieces or cuts	300 mg/kg	16	Adopted	2008
08.3.1.1	Cured (including salted) non-heat treated processed comminuted meat, poultry, and game products	300 mg/kg	16	Adopted	2008
08.3.1.2	Cured (including salted) and dried non-heat treated processed comminuted meat, poultry, and game products	135 mg/kg		Adopted	2008
08.3.1.3	Fermented non-heat treated processed comminuted meat, poultry, and game products	300 mg/kg	16	Adopted	2008
08.3.2	Heat-treated processed comminuted meat, poultry, and game products	300 mg/kg	16	Adopted	2008
08.3.3	Frozen processed comminuted meat, poultry, and game products	300 mg/kg	16	Adopted	2008
08.4	Edible casings (e.g., sausage casings)	300 mg/kg	16	Adopted	2008
09.1.1	Fresh fish	300 mg/kg	4, 16 & 50	Adopted	2008
09.1.2	Fresh mollusks, crustaceans, and echinoderms	300 mg/kg	4 & 16	Adopted	2008
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	300 mg/kg	95	Adopted	2008
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	300 mg/kg	16	Adopted	2008
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	300 mg/kg	16 & 95	Adopted	2008
09.2.4.1	Cooked fish and fish products	300 mg/kg	95	Adopted	2008

SUNSET YELLOW FCF

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	250 mg/kg		Adopted	2008
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	300 mg/kg	16	Adopted	2008
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	100 mg/kg	22	Adopted	2008
09.3.1	Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly	300 mg/kg	16	Adopted	2008
09.3.2	Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine	300 mg/kg	16	Adopted	2008
09.3.3	Salmon substitutes, caviar, and other fish roe products	300 mg/kg		Adopted	2008
09.3.4	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3	300 mg/kg		Adopted	2008
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	300 mg/kg	95	Adopted	2008
10.1	Fresh eggs	GMP	4	Adopted	2008
10.4	Egg-based desserts (e.g., custard)	50 mg/kg		Adopted	2008
12.2.2	Seasonings and condiments	300 mg/kg		Adopted	2008
12.4	Mustards	300 mg/kg		Adopted	2008
12.5	Soups and broths	50 mg/kg		Adopted	2008
12.6	Sauces and like products	300 mg/kg		Adopted	2008
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	50 mg/kg		Adopted	2008
13.4	Dietetic formulae for slimming purposes and weight reduction	50 mg/kg		Adopted	2008
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	300 mg/kg		Adopted	2008
13.6	Food supplements	300 mg/kg		Adopted	2008
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	100 mg/kg	127 & 161	Adopted	2008
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	200 mg/kg		Adopted	2008
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	200 mg/kg		Adopted	2008
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	200 mg/kg		Adopted	2008

TALC

INS 553(iii)

Talc

Functional Class: Anticaking agent, Glazing agent, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.8.2	Dried whey and whey products, excluding whey cheeses	10000 mg/kg		Adopted	2006
06.1	Whole, broken, or flaked grain, including rice	GMP		7	
12.1.2	Salt Substitutes	10000 mg/kg	51	7	

TARA GUM

TARA GUM

INS 417

Tara gum

Functional Class: Gelling agent, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1	Milk and buttermilk (plain)	GMP		7	
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235	Adopted	2013
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.2.2	Renneted milk (plain)	GMP		Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	236	Adopted	2013
02.1.2	Vegetable oils and fats	GMP		7	
02.1.3	Lard, tallow, fish oil, and other animal fats	GMP		7	
04.1.1.2	Surface-treated fresh fruit	GMP		7	
04.1.1.3	Peeled or cut fresh fruit	GMP		7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
04.2.1.3	Peeled, cut or shredded fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
06.1	Whole, broken, or flaked grain, including rice	GMP		7	
06.4.2	Dried pastas and noodles and like products	GMP		7	
08.1	Fresh meat, poultry, and game	GMP		7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	73	7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	73	7	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
10.2.1	Liquid egg products	GMP		7	
10.2.2	Frozen egg products	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	
13.2	Complementary foods for infants and young children	GMP		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		7	
14.2.3	Grape wines	GMP		7	

TARTRATES

TARTRATES

INS 334	L(+)-Tartaric acid	Functional Class: Acidity regulator, Antioxidant, Flavour enhancer, Sequestrant
INS 335(i)	Monosodium tartrate	Functional Class: Acidity regulator, Sequestrant, Stabilizer
INS 335(ii)	Sodium L(+)-tartrate	Functional Class: Acidity regulator, Sequestrant, Stabilizer
INS 336(i)	Monopotassium tartrate	Functional Class: Acidity regulator, Sequestrant, Stabilizer
INS 336(ii)	Dipotassium tartrate	Functional Class: Acidity regulator, Sequestrant, Stabilizer
INS 337	Potassium sodium L(+)-tartrate	Functional Class: Acidity regulator, Sequestrant, Stabilizer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2.1	Fermented milks (plain)	GMP	45	7	
01.6.1	Unripened cheese	1500 mg/kg	45	4	
01.6.2	Ripened cheese	GMP	45	7	
01.6.4	Processed cheese	34900 mg/kg	45	7	
01.6.5	Cheese analogues	GMP	45	7	
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	2000 mg/kg	45	7	
02.1.2	Vegetable oils and fats	5000 mg/kg	45	4	
02.1.3	Lard, tallow, fish oil, and other animal fats	5000 mg/kg	45	4	
02.2.2	Fat spreads, dairy fat spreads and blended spreads	5000 mg/kg	45	4	
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	GMP	45	7	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	GMP	45	7	
03.0	Edible ices, including sherbet and sorbet	2000 mg/kg	45	7	
04.1.2.1	Frozen fruit	GMP	45	7	
04.1.2.2	Dried fruit	GMP	45	7	
04.1.2.3	Fruit in vinegar, oil, or brine	GMP	45	7	
04.1.2.4	Canned or bottled (pasteurized) fruit	1300 mg/kg	45	7	
04.1.2.5	Jams, jellies, marmelades	3000 mg/kg	45	7	
04.1.2.6	Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5	3000 mg/kg	45	7	
04.1.2.7	Candied fruit	GMP	45	7	
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	GMP	45	7	
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	20000 mg/kg	45	4	
04.1.2.10	Fermented fruit products	GMP	45	7	
04.1.2.11	Fruit fillings for pastries	10000 mg/kg	45	7	
04.1.2.12	Cooked fruit	GMP	45	7	

TARTRATES

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	15000 mg/kg	45	7	
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	10000 mg/kg	45	7	
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g., peanut butter)	GMP	45	7	
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	2000 mg/kg	45	7	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	10000 mg/kg	45	4	
05.1.1	Cocoa mixes (powders) and cocoa mass/cake	5000 mg/kg	45	7	
05.1.2	Cocoa mixes (syrups)	2000 mg/kg	45	7	
05.1.3	Cocoa-based spreads, including fillings	5000 mg/kg	45	4	
05.1.4	Cocoa and chocolate products	10000 mg/kg	45	7	
05.1.5	Imitation chocolate, chocolate substitute products	10000 mg/kg	45	7	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	20000 mg/kg	45	7	
05.3	Chewing gum	30000 mg/kg	45	7	
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	8000 mg/kg	45	7	
06.2	Flours and starches (including soybean powder)	6000 mg/kg	45	4	
06.4.1	Fresh pastas and noodles and like products	GMP	45	7	
06.4.3	Pre-cooked pastas and noodles and like products	7500 mg/kg	45	4	
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	2860 mg/kg	45	7	
07.0	Bakery wares	10000 mg/kg	45	7	
08.0	Meat and meat products, including poultry and game	GMP	45	7	
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	45	4	
10.4	Egg-based desserts (e.g., custard)	2000 mg/kg	45	7	
11.6	Table-top sweeteners, including those containing high-intensity sweeteners	GMP	45	7	
12.2.2	Seasonings and condiments	7500 mg/kg	45	7	
12.4	Mustards	5000 mg/kg	45	7	
12.5	Soups and broths	5000 mg/kg	45	7	
12.6.1	Emulsified sauces and dips (e.g., mayonnaise, salad dressing, onion dip)	2860 mg/kg	45	7	
12.6.2	Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy)	5000 mg/kg	45	7	

TARTRATES

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
12.6.3	Mixes for sauces and gravies	GMP	45	7	
12.6.4	Clear sauces (e.g., fish sauce)	200 mg/kg	45	4	
13.2	Complementary foods for infants and young children	5000 mg/kg	45	7	
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	GMP	45	4	
13.4	Dietetic formulae for slimming purposes and weight reduction	GMP	45	4	
13.6	Food supplements	GMP	45	4	
14.1.2.1	Fruit juice	4000 mg/kg	45, 128 & 129	Adopted	2005
14.1.2.2	Vegetable juice	4000 mg/kg	45	7	
14.1.2.3	Concentrates for fruit juice	4000 mg/kg	45, 127, 128 & 129	Adopted	2005
14.1.2.4	Concentrates for vegetable juice	4000 mg/kg	45	7	
14.1.3.1	Fruit nectar	4000 mg/kg	45 & 128	Adopted	2005
14.1.3.2	Vegetable nectar	1600 mg/kg	45	7	
14.1.3.3	Concentrates for fruit nectar	4000 mg/kg	45, 127 & 128	Adopted	2005
14.1.3.4	Concentrates for vegetable nectar	1600 mg/kg	45	7	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	5000 mg/kg	45	7	
14.2.1	Beer and malt beverages	2000 mg/kg	45	7	
14.2.2	Cider and perry	2000 mg/kg	45	7	
14.2.3.1	Still grape wine	9000 mg/kg	45	7	
14.2.3.2	Sparkling and semi-sparkling grape wines	4000 mg/kg	45	4	
14.2.3.3	Fortified grape wine, grape liquor wine, and sweet grape wine	4000 mg/kg	45	4	
14.2.4	Wines (other than grape)	GMP	45	7	
14.2.5	Mead	GMP	45	7	
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	3000 mg/kg	45	7	
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	3000 mg/kg	45	7	
15.0	Ready-to-eat savouries	2000 mg/kg	45	4	

TARTRAZINE

INS 102 Tartrazine

Functional Class: Colour

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	300 mg/kg	52	7	
01.3.2	Beverage whiteners	300 mg/kg		7	

TARTRAZINE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.6.1	Unripened cheese	300 mg/kg	3	4	
01.6.2.2	Rind of ripened cheese	100 mg/kg		7	
01.6.4	Processed cheese	200 mg/kg		7	
01.6.5	Cheese analogues	300 mg/kg	3	4	
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	300 mg/kg		7	
02.1.3	Lard, tallow, fish oil, and other animal fats	300 mg/kg		4	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	300 mg/kg		7	
03.0	Edible ices, including sherbet and sorbet	300 mg/kg		7	
04.1.1.2	Surface-treated fresh fruit	500 mg/kg	4 & 16	7	
04.1.2.2	Dried fruit	200 mg/kg		7	
04.1.2.4	Canned or bottled (pasteurized) fruit	200 mg/kg		7	
04.1.2.5	Jams, jellies, marmelades	500 mg/kg		7	
04.1.2.6	Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5	500 mg/kg		7	
04.1.2.7	Candied fruit	300 mg/kg		7	
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	500 mg/kg	182	7	
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	300 mg/kg		7	
04.1.2.11	Fruit fillings for pastries	300 mg/kg		7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	500 mg/kg	4 & 16	7	
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	300 mg/kg		7	
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	500 mg/kg		7	
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	200 mg/kg		7	
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	200 mg/kg	92	7	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	500 mg/kg		4	
05.1	Cocoa products and chocolate products including imitations and chocolate substitutes	300 mg/kg	183	7	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	300 mg/kg		7	
05.3	Chewing gum	300 mg/kg		7	

TARTRAZINE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	500 mg/kg		7	
06.3	Breakfast cereals, including rolled oats	300 mg/kg		7	
06.4.2	Dried pastas and noodles and like products	300 mg/kg		7	
06.4.3	Pre-cooked pastas and noodles and like products	300 mg/kg	153	7	
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	300 mg/kg		7	
06.8.1	Soybean-based beverages	30 mg/kg		4	
07.0	Bakery wares	300 mg/kg		7	
08.0	Meat and meat products, including poultry and game	500 mg/kg	4 & 16	7	
09.1.1	Fresh fish	300 mg/kg	4, 16 & 50	7	
09.1.2	Fresh mollusks, crustaceans, and echinoderms	500 mg/kg	4 & 16	7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg		7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	16	7	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	16	7	
09.2.4.1	Cooked fish and fish products	500 mg/kg		7	
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	250 mg/kg		7	
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	16	7	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg	22	7	
09.3.1	Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly	500 mg/kg	16	7	
09.3.2	Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine	500 mg/kg	16	7	
09.3.3	Salmon substitutes, caviar, and other fish roe products	500 mg/kg		7	
09.3.4	Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3	500 mg/kg		7	
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	500 mg/kg		7	
10.1	Fresh eggs	500 mg/kg	4	4	
10.4	Egg-based desserts (e.g., custard)	300 mg/kg		7	
11.3	Sugar solutions and syrups, also (partially) inverted, including treacle and molasses, excluding products of food category 11.1.3	300 mg/kg		7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	300 mg/kg		7	
11.6	Table-top sweeteners, including those containing high-intensity sweeteners	300 mg/kg		7	
12.2.1	Herbs and spices	300 mg/kg		7	
12.2.2	Seasonings and condiments	500 mg/kg		7	
12.4	Mustards	300 mg/kg		7	

TARTRAZINE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
12.5	Soups and broths	300 mg/kg		7	
12.6	Sauces and like products	500 mg/kg		7	
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	50 mg/kg		7	
13.4	Dietetic formulae for slimming purposes and weight reduction	50 mg/kg		7	
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	300 mg/kg		7	
13.6	Food supplements	300 mg/kg		7	
14.1.2.2	Vegetable juice	500 mg/kg		4	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	300 mg/kg		7	
14.2.1	Beer and malt beverages	500 mg/kg		4	
14.2.2	Cider and perry	200 mg/kg		7	
14.2.4	Wines (other than grape)	200 mg/kg		7	
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	300 mg/kg		7	
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	200 mg/kg		7	
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	300 mg/kg		7	
15.2	Processed nuts, including coated nuts and nut mixtures (with e.g., dried fruit)	100 mg/kg		7	

TERTIARY BUTYLHYDROQUINONE

INS 319 Tertiary butylhydroquinone Functional Class: Antioxidant (TBHQ)

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.3.2	Beverage whiteners	100 mg/kg	15 & 195	Adopted	2007
02.1.2	Vegetable oils and fats	200 mg/kg	15 & 130	Adopted	2006
02.1.3	Lard, tallow, fish oil, and other animal fats	200 mg/kg	15 & 130	Adopted	2006
02.2.2	Fat spreads, dairy fat spreads and blended spreads	200 mg/kg	15 & 130	Adopted	2005
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	200 mg/kg	15 & 130	Adopted	2005
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	200 mg/kg	15 & 130	Adopted	2005
03.0	Edible ices, including sherbet and sorbet	200 mg/kg	15 & 195	Adopted	2006
05.1.4	Cocoa and chocolate products	200 mg/kg	15, 130 & 141	Adopted	2006
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	200 mg/kg	15 & 130	Adopted	2006
05.3	Chewing gum	400 mg/kg	130	Adopted	2006
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	200 mg/kg	15 & 130	Adopted	2006

TERTIARY BUTYLHYDROQUINONE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
06.4.3	Pre-cooked pastas and noodles and like products	200 mg/kg	15 & 130	Adopted	2006
07.1.1	Breads and rolls	200 mg/kg	15 & 195	Adopted	2006
07.1.2	Crackers, excluding sweet crackers	200 mg/kg	15 & 195	Adopted	2006
07.1.3	Other ordinary bakery products (e.g., bagels, pita, English muffins)	200 mg/kg	15 & 130	Adopted	2006
07.1.4	Bread-type products, including bread stuffing and bread crumbs	200 mg/kg	15 & 195	Adopted	2006
08.2	Processed meat, poultry, and game products in whole pieces or cuts	100 mg/kg	15, 130 & 167	Adopted	2007
08.3	Processed comminuted meat, poultry, and game products	100 mg/kg	15, 130 & 162	Adopted	2007
12.2	Herbs, spices, seasonings and condiments (e.g., seasoning for instant noodles)	200 mg/kg	15 & 130	Adopted	2005
12.4	Mustards	200 mg/kg	15	Adopted	2006
12.5	Soups and broths	200 mg/kg	15 & 130	Adopted	2006
12.6	Sauces and like products	200 mg/kg	15 & 130	Adopted	2005
15.0	Ready-to-eat savouries	200 mg/kg	15 & 130	Adopted	2005

THAUMATIN

INS 957

Thaumatococcus

Functional Class: Flavour enhancer, Sweetener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2	Fermented and renneted milk products (plain), excluding food category 01.1.2 (dairy-based drinks)	GMP		4	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP		4	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	500 mg/kg		7	
12.1.2	Salt Substitutes	400 mg/kg	51	7	
13.2	Complementary foods for infants and young children	GMP		4	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		4	

THERMALLY OXIDIZED SOYA BEAN OIL INTERACTED WITH MONO- AND DIGLYCERIDES OF FATTY ACIDS

INS 479

Thermally oxidized soya bean oil interacted with mono- and diglycerides of fatty acids

Functional Class: Emulsifier

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
02.2.2	Fat spreads, dairy fat spreads and blended spreads	5000 mg/kg		Adopted	1999

THIODIPROPIONATES

THIODIPROPIONATES

INS 388	Thiodipropionic acid	Functional Class: Antioxidant
INS 389	Dilauryl thiodipropionate	Functional Class: Antioxidant

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
02.1.2	Vegetable oils and fats	200 mg/kg	46	Adopted	2006
02.1.3	Lard, tallow, fish oil, and other animal fats	200 mg/kg	46	Adopted	2006
02.2.2	Fat spreads, dairy fat spreads and blended spreads	200 mg/kg	46	Adopted	1999
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	200 mg/kg	15 & 46	Adopted	1999
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	1000 mg/kg	15 & 46	Adopted	1999
15.0	Ready-to-eat savouries	200 mg/kg	46	Adopted	1999

TITANIUM DIOXIDE

INS 171	Titanium dioxide	Functional Class: Colour
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FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2.2	Renneted milk (plain)	GMP		7	
01.4.1	Pasteurized cream (plain)	GMP		7	
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		7	
04.1.1.2	Surface-treated fresh fruit	GMP	4 & 16	7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	4 & 16	7	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP	4 & 16	7	
08.1.2	Fresh meat, poultry, and game, comminuted	1000 mg/kg	4, 16 & 94	7	
09.1.1	Fresh fish	GMP	4, 16 & 50	7	
09.1.2	Fresh mollusks, crustaceans, and echinoderms	GMP	4 & 16	7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	95	7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.4.1	Cooked fish and fish products	GMP		7	
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	GMP		7	
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	22	7	
10.1	Fresh eggs	GMP	4	7	

TITANIUM DIOXIDE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
14.2.3.2	Sparkling and semi-sparkling grape wines	GMP		7	

TOCOPHEROLS

INS 307a	d-alpha-Tocopherol	Functional Class: Antioxidant
INS 307b	Tocopherol concentrate, mixed	Functional Class: Antioxidant
INS 307c	dl-alpha-Tocopherol	Functional Class: Antioxidant

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1	Milk and dairy-based drinks	200 mg/kg		7	
01.2	Fermented and renneted milk products (plain), excluding food category 01.1.2 (dairy-based drinks)	200 mg/kg		7	
01.3	Condensed milk and analogues (plain)	200 mg/kg		7	
01.4	Cream (plain) and the like	200 mg/kg		7	
01.5.1	Milk powder and cream powder (plain)	5000 mg/kg		7	
01.5.2	Milk and cream powder analogues	200 mg/kg		7	
01.6.1	Unripened cheese	200 mg/kg		7	
01.6.2	Ripened cheese	200 mg/kg		7	
01.6.4	Processed cheese	200 mg/kg		7	
01.6.5	Cheese analogues	200 mg/kg		7	
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	500 mg/kg		7	
01.8.1	Liquid whey and whey products, excluding whey cheeses	200 mg/kg		7	
02.1.1	Butter oil, anhydrous milkfat, ghee	500 mg/kg	171	Adopted	2006
02.1.2	Vegetable oils and fats	300 mg/kg		7	
02.1.3	Lard, tallow, fish oil, and other animal fats	300 mg/kg		7	
02.2.2	Fat spreads, dairy fat spreads and blended spreads	500 mg/kg		Adopted	2009
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	200 mg/kg		7	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	200 mg/kg		7	
03.0	Edible ices, including sherbet and sorbet	500 mg/kg	15	7	
04.1.2.2	Dried fruit	200 mg/kg		7	
04.1.2.8	Fruit preparations, including pulp, purees, fruit toppings and coconut milk	150 mg/kg		7	
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	150 mg/kg		7	
04.1.2.11	Fruit fillings for pastries	150 mg/kg		7	
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	200 mg/kg		7	

TOCOPHEROLS

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g., peanut butter)	25 mg/kg		7	
04.2.2.8	Cooked or fried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	200 mg/kg		7	
05.1.1	Cocoa mixes (powders) and cocoa mass/cake	500 mg/kg	15	7	
05.1.2	Cocoa mixes (syrops)	500 mg/kg	15	7	
05.1.3	Cocoa-based spreads, including fillings	500 mg/kg	15	7	
05.1.4	Cocoa and chocolate products	750 mg/kg	15	7	
05.1.5	Imitation chocolate, chocolate substitute products	500 mg/kg	15	7	
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	500 mg/kg	15	7	
05.3	Chewing gum	1500 mg/kg		7	
05.4	Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces	500 mg/kg	15	7	
06.2	Flours and starches (including soybean powder)	600 mg/kg		7	
06.3	Breakfast cereals, including rolled oats	85 mg/kg		7	
06.4.2	Dried pastas and noodles and like products	2000 mg/kg		4	
06.4.3	Pre-cooked pastas and noodles and like products	200 mg/kg		4	
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	150 mg/kg		7	
06.6	Batters (e.g., for breading or batters for fish or poultry)	5 mg/kg		7	
07.0	Bakery wares	200 mg/kg		7	
08.1.2	Fresh meat, poultry, and game, comminuted	300 mg/kg	15	7	
08.2	Processed meat, poultry, and game products in whole pieces or cuts	3000 mg/kg		7	
08.3	Processed comminuted meat, poultry, and game products	3000 mg/kg		7	
08.4	Edible casings (e.g., sausage casings)	5000 mg/kg		7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	15	7	
10.4	Egg-based desserts (e.g., custard)	150 mg/kg		7	
12.2	Herbs, spices, seasonings and condiments (e.g., seasoning for instant noodles)	1000 mg/kg		7	
12.4	Mustards	200 mg/kg		7	
12.5	Soups and broths	200 mg/kg		7	
12.6.1	Emulsified sauces and dips (e.g., mayonnaise, salad dressing, onion dip)	600 mg/kg		7	
12.6.2	Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy)	600 mg/kg		7	
12.6.3	Mixes for sauces and gravies	300 mg/kg		7	
12.6.4	Clear sauces (e.g., fish sauce)	300 mg/kg		7	

TOCOPHEROLS

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
12.7	Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	200 mg/kg		7	
12.8	Yeast and like products	200 mg/kg		7	
13.1.1	Infant formulae	10 mg/kg	72	7	
13.1.2	Follow-up formulae	30 mg/kg	72	7	
13.1.3	Formulae for special medical purposes for infants	10 mg/kg	72	7	
13.2	Complementary foods for infants and young children	1000 mg/kg		7	
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	GMP		4	
13.4	Dietetic formulae for slimming purposes and weight reduction	GMP		4	
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	GMP		4	
13.6	Food supplements	150 mg/kg		4	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	1000 mg/kg	15	7	
14.2.7	Aromatized alcoholic beverages (e.g., beer, wine and spirituous cooler-type beverages, low alcoholic refreshers)	150 mg/kg		7	
15.1	Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)	200 mg/kg		7	
15.2	Processed nuts, including coated nuts and nut mixtures (with e.g., dried fruit)	1500 mg/kg		7	

TRAGACANTH GUM

INS 413

Tragacanth gum

Functional Class: Emulsifier, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1.2	Buttermilk (plain)	GMP		7	
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.2.2	Renneted milk (plain)	GMP		Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP	236	Adopted	2013
04.1.1.2	Surface-treated fresh fruit	GMP	16	7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	16	7	
06.4.1	Fresh pastas and noodles and like products	GMP		4	
06.4.2	Dried pastas and noodles and like products	GMP		7	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP	16	7	
08.1.2	Fresh meat, poultry, and game, comminuted	GMP		7	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	

TRAGACANTH GUM

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	GMP		7	
12.1.2	Salt Substitutes	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		7	
14.2.3	Grape wines	GMP		7	

TRICALCIUM CITRATE

INS 333(iii)

Tricalcium citrate

Functional Class: Acidity regulator, Firming agent, Sequestrant, Stabilizer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
02.1.2	Vegetable oils and fats	GMP		7	
02.1.3	Lard, tallow, fish oil, and other animal fats	GMP		7	
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
08.1.2	Fresh meat, poultry, and game, comminuted	GMP		7	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		Adopted	2013
12.2.1	Herbs and spices	GMP	51	7	

TRIETHYL CITRATE

INS 1505

Triethyl citrate

Functional Class: Carrier, Emulsifier, Sequestrant, Stabilizer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
10.2.1	Liquid egg products	2500 mg/kg	47	Adopted	1999
10.2.3	Dried and/or heat coagulated egg products	2500 mg/kg	47	Adopted	1999

TRIETHYL CITRATE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	200 mg/kg		Adopted	1999

TRIPOTASSIUM CITRATE

INS 332(ii) Tripotassium citrate Functional Class: Acidity regulator, Sequestrant, Stabilizer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1.2	Buttermilk (plain)	GMP	261	Adopted	2013
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.2.2	Renneted milk (plain)	GMP		Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
01.8.2	Dried whey and whey products, excluding whey cheeses	GMP		Adopted	2006
02.1.2	Vegetable oils and fats	GMP		7	
02.1.3	Lard, tallow, fish oil, and other animal fats	GMP		7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	16	7	
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP	16	7	
08.1.2	Fresh meat, poultry, and game, comminuted	GMP		7	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	61	Adopted	2013
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	61	Adopted	2013
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16	Adopted	2013
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		Adopted	2013
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	266 & 267	Adopted	2013
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	GMP	258	Adopted	2013
12.1.2	Salt Substitutes	GMP		Adopted	2013
12.2.1	Herbs and spices	GMP	51	7	
13.1.1	Infant formulae	GMP	72	7	
13.1.2	Follow-up formulae	GMP	72	Adopted	2013
13.1.3	Formulae for special medical purposes for infants	GMP	72	4	
13.2	Complementary foods for infants and young children	GMP	239	Adopted	2013

TRIPOTASSIUM CITRATE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160	Adopted	2013

TRISODIUM CITRATE

INS 331(iii)

Trisodium citrate

Functional Class: Acidity regulator, Emulsifier, Sequestrant, Stabilizer

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1	Milk and buttermilk (plain)	GMP		7	
01.1.1.2	Buttermilk (plain)	GMP	261	Adopted	2013
01.2.2	Renneted milk (plain)	GMP		Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
01.8.2	Dried whey and whey products, excluding whey cheeses	GMP		Adopted	2006
02.1.1	Butter oil, anhydrous milkfat, ghee	GMP	171	Adopted	2006
02.1.2	Vegetable oils and fats	GMP		7	
02.1.3	Lard, tallow, fish oil, and other animal fats	GMP		7	
04.2.1	Fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	2000 mg/kg		7	
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP		Adopted	2013
06.2	Flours and starches (including soybean powder)	GMP		4	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	5000 mg/kg		7	
08.1.2	Fresh meat, poultry, and game, comminuted	GMP		7	
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	61	Adopted	2013
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	61	Adopted	2013
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16	Adopted	2013
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		Adopted	2013
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	266 & 267	Adopted	2013
10.2.1	Liquid egg products	GMP		Adopted	2013
10.2.2	Frozen egg products	GMP		Adopted	2013

TRISODIUM CITRATE

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	GMP	258	Adopted	2013
12.1.2	Salt Substitutes	GMP		Adopted	2013
12.2.1	Herbs and spices	GMP	51	7	
13.1.1	Infant formulae	GMP	72	7	
13.1.2	Follow-up formulae	GMP	72	Adopted	2013
13.1.3	Formulae for special medical purposes for infants	GMP	72	4	
13.2	Complementary foods for infants and young children	5000 mg/kg	238	Adopted	2013
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP	160	Adopted	2013

XANTHAN GUM

INS 415

Xanthan gum

Functional Class: Emulsifier, Foaming agent, Stabilizer, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.1.1	Milk (plain)	GMP		7	
01.1.1.2	Buttermilk (plain)	3000 mg/kg		7	
01.2	Fermented and renneted milk products (plain), excluding food category 01.1.2 (dairy-based drinks)	GMP		4	
01.2.1.1	Fermented milks (plain), not heat-treated after fermentation	GMP	234 & 235	Adopted	2013
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP	234	Adopted	2013
01.4.1	Pasteurized cream (plain)	GMP	236	Adopted	2013
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	GMP		Adopted	2013
02.1.2	Vegetable oils and fats	10000 mg/kg		4	
02.1.3	Lard, tallow, fish oil, and other animal fats	10000 mg/kg		4	
04.1.1.2	Surface-treated fresh fruit	GMP		7	
04.1.1.3	Peeled or cut fresh fruit	GMP		7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
04.2.1.3	Peeled, cut or shredded fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
04.2.2.1	Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP		7	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	GMP		Adopted	2013
06.4.1	Fresh pastas and noodles and like products	10000 mg/kg		4	
06.4.2	Dried pastas and noodles and like products	10000 mg/kg		4	

XANTHAN GUM

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
08.1	Fresh meat, poultry, and game	GMP		7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	160 mg/kg		7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	41 & 61	7	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.4	Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
10.2.1	Liquid egg products	GMP		7	
10.2.2	Frozen egg products	GMP		7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	5000 mg/kg		7	
12.1.2	Salt Substitutes	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	
13.2	Complementary foods for infants and young children	20000 mg/kg		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	GMP		7	
14.2.3	Grape wines	GMP		7	

XYLITOL

INS 967

Xylitol

Functional Class: Emulsifier, Humectant, Stabilizer, Sweetener, Thickener

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.2	Fermented and renneted milk products (plain), excluding food category 01.1.2 (dairy-based drinks)	30000 mg/kg		7	
01.2.1.2	Fermented milks (plain), heat-treated after fermentation	GMP		7	
01.2.2	Renneted milk (plain)	GMP		7	
01.4.1	Pasteurized cream (plain)	30000 mg/kg		4	
01.4.2	Sterilized and UHT creams, whipping and whipped creams, and reduced fat creams (plain)	30000 mg/kg		4	
04.1.1.2	Surface-treated fresh fruit	GMP	16	7	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	GMP	16	7	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	10000 mg/kg		4	
06.4.2	Dried pastas and noodles and like products	GMP		7	
08.1.1	Fresh meat, poultry, and game, whole pieces or cuts	GMP	16	7	
08.1.2	Fresh meat, poultry, and game, comminuted	GMP		7	

XYLITOL

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
09.1	Fresh fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.3	Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.4.1	Cooked fish and fish products	GMP		7	
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	GMP		7	
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	16	7	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	GMP		7	
11.4	Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings)	GMP		7	
12.1.2	Salt Substitutes	GMP		7	
12.2.1	Herbs and spices	GMP	51	7	
13.2	Complementary foods for infants and young children	GMP		7	
14.1.5	Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa	30000 mg/kg		4	

ZEAXANTHIN, SYNTHETIC

INS 161h(i) Zeaxanthin, synthetic Functional Class: Colour

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
01.1.2	Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)	100 mg/kg	52	4	
01.2	Fermented and renneted milk products (plain), excluding food category 01.1.2 (dairy-based drinks)	100 mg/kg		4	
01.6.1	Unripened cheese	100 mg/kg		4	
01.6.2	Ripened cheese	100 mg/kg		4	
01.6.4	Processed cheese	100 mg/kg		4	
01.6.5	Cheese analogues	100 mg/kg		4	
01.7	Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)	150 mg/kg		4	
02.2.2	Fat spreads, dairy fat spreads and blended spreads	100 mg/kg		4	
02.3	Fat emulsions mainly of type oil-in-water, including mixed and/or flavoured products based on fat emulsions	50 mg/kg		4	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	150 mg/kg		4	
03.0	Edible ices, including sherbet and sorbet	150 mg/kg		4	
04.1.2.7	Candied fruit	200 mg/kg		4	
04.1.2.9	Fruit-based desserts, including fruit-flavoured water-based desserts	150 mg/kg		4	

ZEAXANTHIN, SYNTHETIC

FoodCatNo	FoodCategory	MaxLevel	Notes	Step	Year
05.2	Confectionery including hard and soft candy, nougats, etc. other than food categories 05.1, 05.3 and 05.4	300 mg/kg		4	
05.3	Chewing gum	100 mg/kg		4	
06.3	Breakfast cereals, including rolled oats	100 mg/kg		4	
06.5	Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)	100 mg/kg		4	
07.1.2	Crackers, excluding sweet crackers	50 mg/kg		4	
07.2	Fine bakery wares (sweet, salty, savoury) and mixes	100 mg/kg		4	
08.4	Edible casings (e.g., sausage casings)	GMP		4	
10.2	Egg products	100 mg/kg		4	
10.4	Egg-based desserts (e.g., custard)	100 mg/kg		4	
12.2.2	Seasonings and condiments	500 mg/kg		4	
12.5	Soups and broths	50 mg/kg		4	
12.6.1	Emulsified sauces and dips (e.g., mayonnaise, salad dressing, onion dip)	50 mg/kg		4	
12.6.2	Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy)	50 mg/kg		4	
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	50 mg/kg		4	
13.4	Dietetic formulae for slimming purposes and weight reduction	50 mg/kg		4	
13.5	Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	100 mg/kg		4	
13.6	Food supplements	300 mg/kg		4	
14.1.3.2	Vegetable nectar	100 mg/kg		4	
14.1.3.4	Concentrates for vegetable nectar	100 mg/kg		4	
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	100 mg/kg		4	
15.0	Ready-to-eat savouries	100 mg/kg		4	

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Notes to the General Standard for Food Additives

- Note 1 As adipic acid.
- Note 2 On dry ingredient, dry weight, dry mix or concentrate basis.
- Note 3 Surface treatment.
- Note 4 For decoration, stamping, marking or branding the product.
- Note 5 Excluding products conforming to the Standard for Jams, Jellies and Marmalades (CODEX STAN 296-2009).
- Note 6 As aluminium.
- Note 7 For coffee substitutes only.
- Note 8 As bixin.
- Note 9 10 000 mg/kg for use in ready-to-drink coffee products.
- Note 10 As ascorbyl stearate.
- Note 11 Flour basis.
- Note 12 Carryover from flavouring substances.
- Note 13 As benzoic acid.
- Note 14 For use in hydrolyzed protein liquid formula only.
- Note 15 Fat or oil basis.
- Note 16 For use in glaze, coatings or decorations for fruit, vegetables, meat or fish.
- Note 17 As cyclamic acid.
- Note 18 Added level; residue not detected in ready-to-eat food.
- Note 19 Used in cocoa fat; use level on ready-to-eat basis.
- Note 20 On total amount of stabilizers, thickeners and/or gums.
- Note 21 As anhydrous calcium disodium ethylenediaminetetraacetate.
- Note 22 For use in smoked fish products only.
- Note 23 As iron.
- Note 24 As anhydrous sodium ferrocyanide.
- Note 25 As formic acid.
- Note 26 As steviol equivalents.
- Note 27 As para-hydroxybenzoic acid.
- Note 28 ADI conversion: if a typical preparation contains 0.025 µg/U, then the ADI of 33 000 U/kg bw becomes: $[(33\ 000\ \text{U/kg bw}) \times (0.025\ \mu\text{g/U}) \times (1\ \text{mg}/1\ 000\ \mu\text{g})] = 0.825\ \text{mg/kg bw}$
- Note 29 Reporting basis not specified.
- Note 30 As residual NO₃ ion.
- Note 31 Of the mash used.
- Note 32 As residual NO₂ ion.
- Note 33 As phosphorus.
- Note 34 Anhydrous basis.
- Note 35 For use in cloudy juices only.
- Note 36 Residual level.
- Note 37 As weight of nonfat milk solids.
- Note 38 Level in creaming mixture.
- Note 39 Only when product contains butter or other fats and oils.
- Note 40 INS 451i (pentasodium triphosphate) only, to enhance the effectiveness of benzoates and sorbates.
- Note 41 Use in breading or batter coatings only.
- Note 42 As sorbic acid.
- Note 43 As tin.
- Note 44 As residual SO₂.
- Note 45 As tartaric acid.
- Note 46 As thiodipropionic acid.
- Note 47 On egg yolk weight, dry basis.
- Note 48 For olives only.
- Note 49 For use on citrus fruits only.

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- Note 50 For use in fish roe only.
- Note 51 For use in herbs only.
- Note 52 Excluding chocolate milk.
- Note 53 For use in coatings only.
- Note 54 For use in cocktail cherries and candied cherries only.
- Note 55 Singly or in combination, within the limits for sodium, calcium, and potassium specified in the commodity standard.
- Note 56 Provided starch is not present.
- Note 57 GMP is 1 part benzoyl peroxide and not more than 6 parts of the subject additive by weight.
- Note 58 As calcium.
- Note 59 Use as packaging gas.
- Note 60 If used as a carbonating agent, the CO₂ in the finished wine shall not exceed 39.2 mg/kg.
- Note 61 For use in minced fish only.
- Note 62 As copper.
- Note 63 On amount of dairy ingredients.
- Note 64 Level added to dry beans; 200 mg/kg in ready-to-eat food, anhydrous basis.
- Note 65 Carryover from nutrient preparations.
- Note 66 As formaldehyde. For use in provolone cheese only.
- Note 67 Except for use in liquid egg whites at 8 800 mg/kg as phosphorus, and in liquid whole eggs at 14 700 mg/kg as phosphorus.
- Note 68 For use in products with no added sugar only.
- Note 69 Use as carbonating agent.
- Note 70 As the acid.
- Note 71 Calcium, potassium and sodium salts only.
- Note 72 Ready-to-eat basis.
- Note 73 Except whole fish.
- Note 74 Excluding liquid whey and whey products used as ingredients in infant formula.
- Note 75 Use in milk powder for vending machines only.
- Note 76 Use in potatoes only.
- Note 77 For special nutritional uses only.
- Note 78 50 000 mg/kg for pickling and balsamic vinegars only.
- Note 79 For use on nuts only.
- Note 80 Equivalent to 2 mg/dm² surface application to a maximum depth of 5 mm.
- Note 81 Equivalent to 1 mg/dm² surface application to a maximum depth of 5 mm.
- Note 82 For use in shrimp; 6 000 mg/kg for Crangon crangon and Crangon vulgaris.
- Note 83 L(+)-form only.
- Note 84 For infants over 1 year of age only.
- Note 85 Use level in sausage casings; residue in sausage prepared with such casings should not exceed 100 mg/kg.
- Note 86 Use in whipped dessert toppings other than cream only.
- Note 87 Treatment level.
- Note 88 Carryover from the ingredient.
- Note 89 For sandwich spreads only.
- Note 90 For use in milk-sucrose mixtures used in the finished product.
- Note 91 Benzoates and sorbates, singly or in combination.
- Note 92 Excluding tomato-based sauces.
- Note 93 Except natural wine produced from Vitis vinifera grapes.
- Note 94 For use in loganiza (fresh, uncured sausage) only.
- Note 95 For use in surimi and fish roe products only.
- Note 96 On a dried weight basis of the high intensity sweetener.
- Note 97 In the finished product/final cocoa and chocolate products.
- Note 98 For dust control.
- Note 99 For use in fish fillets and minced fish only.
- Note 100 Only for crystalline products and sugar toppings.

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- Note 101 Use level singly, not to exceed 15 000 mg/kg in combination.
- Note 102 For use in fat emulsions for baking purposes only.
- Note 103 Except for use in special white wines at 400 mg/kg.
- Note 104 Maximum 5 000 mg/kg residue in bread and yeast-leavened bakery products.
- Note 105 Except for use in dried gourd strips (Kampyo) at 5 000 mg/kg.
- Note 106 Except for use in Dijon mustard at 500 mg/kg.
- Note 107 Except for use of sodium ferrocyanide (INS 535) and potassium ferrocyanide (INS 536) in food-grade dendridic salt at 29 mg/kg as anhydrous sodium ferrocyanide.
- Note 108 For use on coffee beans only.
- Note 109 Use level reported as $25 \text{ lbs}/1\ 000 \text{ gal} \times (0.45 \text{ kg}/\text{lb}) \times (1 \text{ gal}/3.75 \text{ L}) \times (1 \text{ L}/\text{kg}) \times (10\text{E}6 \text{ mg}/\text{kg}) = 3\ 000 \text{ mg}/\text{kg}$
- Note 110 For use in frozen French fried potatoes only.
- Note 111 Excluding dried glucose syrup used in the manufacture of sugar confectionery at 150 mg/kg and glucose syrup used in the manufacture of sugar confectionery at 400 mg/kg.
- Note 112 For use in grated cheese only.
- Note 113 Use level reported as acesulfame potassium equivalents (the reported maximum level can be converted to an aspartame-acesulfame salt basis by dividing by 0.44). Combined use of aspartame-acesulfame salt with individual acesulfame potassium or aspartame should not exceed the individual maximum levels for acesulfame potassium or aspartame (the reported maximum level can be converted to aspartame equivalents by dividing by 0.68).
- Note 114 Excluding cocoa powder.
- Note 115 For use in pineapple juice only.
- Note 116 For use in doughs only.
- Note 117 Except for use in loganiza (fresh, uncured sausage) at 1 000 mg/kg.
- Note 118 Except for use in tocino (fresh, cured sausage) at 1 000 mg/kg.
- Note 119 Use level reported as aspartame equivalents (the reported maximum level can be converted to an aspartame-acesulfame salt basis by dividing by 0.64). Combined use of aspartame-acesulfame salt with individual aspartame or acesulfame potassium should not exceed the individual maximum levels for aspartame or acesulfame potassium (the reported maximum level can be converted to acesulfame potassium equivalents by multiplying by 0.68).
- Note 120 Except for use in caviar at 2 500 mg/kg.
- Note 121 Excluding fermented fish products at 1 000 mg/kg.
- Note 122 Subject to national legislation of the importing country.
- Note 123 1 000 mg/kg for beverages with pH greater than 3.5.
- Note 124 Only for products containing less than 7% ethanol.
- Note 125 For use as a release agent for baking pans in a mixture with vegetable oil.
- Note 126 For releasing dough in dividing or baking only.
- Note 127 As served to the consumer.
- Note 128 INS 334 (tartaric acid) only.
- Note 129 For use as an acidity regulator in grape juice.
- Note 130 Singly or in combination: butylated hydroxyanisole (INS 320), butylated hydroxytoluene (INS 321), tertiary butylated hydroquinone (INS 319), and propyl gallate (INS 310).
- Note 131 As a result of use as a flavour carrier.
- Note 132 Except for use at 130 mg/kg (dried basis) in semi-frozen beverages.
- Note 133 Any combination of butylated hydroxyanisole (INS 320), butylated hydroxytoluene (INS 321), and propyl gallate (INS 310) at 200 mg/kg, provided that single use limits are not exceeded.
- Note 134 Except for use in cereal-based puddings at 500 mg/kg.
- Note 135 Except for use in dried apricots at 2000 mg/kg, bleached raisins at 1500 mg/kg, desiccated coconut at 200 mg/kg and coconut from which oil has been partially extracted at 50 mg/kg.
- Note 136 To prevent browning of certain light coloured vegetables.
- Note 137 Except for use in frozen avocado at 300 mg/kg.
- Note 138 For use in energy-reduced products only.
- Note 139 For use in mollusks, crustaceans, and echinoderms only.
- Note 140 Except for use in canned abalone (PAUA) at 1 000 mg/kg.
- Note 141 For use in white chocolate only.
- Note 142 Excluding coffee and tea.

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- Note 143 For use in fruit juice-based drinks and dry ginger ale only.
- Note 144 For use in sweet and sour products only.
- Note 145 Products are energy reduced or with no added sugar.
- Note 146 Use level for beta-carotene (synthetic) (INS 160ai); 35 mg/kg for beta-apo-8'-carotenal (INS 160e) and beta-apo-8'-carotenoic acid, methyl or ethyl ester (INS 160f).
- Note 147 Excluding whey powders for infant food.
- Note 148 For use in microsweets and breath freshening mints at 10 000 mg/kg
- Note 149 Except for use in fish roe at 100 mg/kg.
- Note 150 Use level for soy-based formula; 25 000 mg/kg for hydrolyzed protein and/or amino acid-based formula.
- Note 151 Use level for soy-based formula; 1 000 mg/kg for hydrolyzed protein and/or amino acid-based formula.
- Note 152 For frying purposes only.
- Note 153 For use in instant noodles only.
- Note 154 For use in coconut milk only.
- Note 155 For use in frozen, sliced apples only.
- Note 156 For use in microsweets and breath freshening mints at 2 500 mg/kg.
- Note 157 For use in microsweets and breath freshening mints at 2 000 mg/kg.
- Note 158 For use in microsweets and breath freshening mints at 1 000 mg/kg.
- Note 159 For use in pancake syrup and maple syrup only.
- Note 160 For use in ready-to-drink products and pre-mixes for ready-to-drink products only.
- Note 161 Subject to national legislation of the importing country aimed, in particular, at consistency with Section 3.2 of the Preamble.
- Note 162 For use in dehydrated products and salami-type products only.
- Note 163 For use in microsweets and breath freshening mints at 3 000 mg/kg.
- Note 164 For use in microsweets and breath freshening mints at 30 000 mg/kg.
- Note 165 For use in products for special nutritional use only.
- Note 166 For milk-based sandwich spreads only.
- Note 167 For dehydrated products only.
- Note 168 Quillaia extract type 1 (INS 999(i)) only. Acceptable maximum use level is expressed on saponin basis.
- Note 169 For use in fat-based sandwich spreads only.
- Note 170 Excluding products conforming to the Standard for Fermented Milks (CODEX STAN 243-2003).
- Note 171 Excluding anhydrous milkfat.
- Note 172 Except for use in fruit sauces, fruit toppings, coconut cream, coconut milk and "fruit bars" at 50 mg/kg.
- Note 173 Excluding instant noodles containing vegetables and eggs.
- Note 174 Singly or in combination: sodium aluminosilicate (INS 554), calcium aluminium silicate (INS 556), and aluminium silicate (INS 559).
- Note 175 Except for use in jelly-type fruit-based desserts at 200 mg/kg.
- Note 176 For use in canned liquid coffee only.
- Note 177 For use in sliced, cut, shredded, or grated cheese only.
- Note 178 Expressed as carminic acid.
- Note 179 To restore the natural colour lost in processing only.
- Note 180 Singly or in combination: butylated hydroxyanisole (BHA, INS 320) and butylated hydroxytoluene (BHT, INS 321).
- Note 181 Expressed as anthocyanin.
- Note 182 Except for use in coconut milk.
- Note 183 Products conforming to the Standard for Chocolate and Chocolate Products (CODEX STAN 87-1981) may only use colours for surface decoration.
- Note 184 For use in nutrient coated rice grain premixes only.
- Note 185 As norbixin.
- Note 186 For use in flours with additives only.
- Note 187 Ascorbyl palmitate (INS 304) only.
- Note 188 Not to exceed the maximum use level for acesulfame potassium (INS 950) singly or in combination with aspartame-acesulfame salt (INS 962).

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- Note 189 Excluding rolled oats.
- Note 190 Except for use in fermented milk drinks at 500 mg/kg.
- Note 191 Not to exceed the maximum use level for aspartame (INS 951) singly or in combination with aspartame-acesulfame salt (INS 962).
- Note 192 For liquid products only.
- Note 193 For use in crustacean and fish pastes only.
- Note 194 Only for use in instant noodles conforming to the Standard for Instant Noodles (CODEX STAN 249-2006).
- Note 195 Singly or in combination: butylated hydroxyanisole (BHA, INS 320), butylated hydroxytoluene (BHT, INS 321) and tertiary butylhydroquinone (TBHQ, INS 319).
- Note 196 Singly or in combination: butylated hydroxyanisole (BHA, INS 320), butylated hydroxytoluene (BHT, INS 321) and propyl gallate (INS 310).
- Note 197 Singly or in combination: butylated hydroxytoluene (BHT, INS 321) and propyl gallate (INS 310).
- Note 198 Use level for solid products (e.g., energy, meal replacement or fortified bars); 600 mg/kg as steviol equivalents for use in liquid products.
- Note 199 For use in microsweets and breath freshening mints at 6000 mg/kg as steviol equivalents.
- Note 200 Except for use in Japanese style 'lachs ham' of pork loin (cured and non-heat-treated) at 120 mg/kg as steviol equivalents
- Note 201 For use in flavoured products only.
- Note 202 For use in brine used in the production of sausage only.
- Note 203 For use in chewable supplements only.
- Note 204 For use at 50 mg/kg in longan and lichee only.
- Note 205 For use at 50 mg/kg to prevent browning of certain light colored vegetables.
- Note 206 For use at 30 mg/kg as a bleaching agent only for products conforming to the Standard for Aqueous Coconut Products (CODEX STAN 240-2003).
- Note 207 For use at 50,000 mg/kg in soybean sauce intended for further processing.
- Note 208 For use in dried and dehydrated products only.
- Note 209 Excluding products conforming to the Standard for Blend of Skimmed Milk and Vegetable Fat in Powdered Form (CODEX STAN 251-2006).
- Note 210 For use in pasta made from *Triticum aestivum*, and for use in noodles.
- Note 211 For use in noodles only.
- Note 212 Except for products conforming to the Standard for Bouillon and Consommés (CODEX STAN 117-1981) at 3000 mg/kg.
- Note 213 For use in liquid products containing high intensity sweeteners only.
- Note 214 Excluding products conforming to the Standard for Dairy Fat Spreads (CODEX STAN 253-2006).
- Note 215 Excluding products conforming to the Standard for Fat Spreads and Blended Spreads (CODEX STAN 256-2007).
- Note 216 For use in maize-based products only.
- Note 217 For use at 300 mg/kg in toppings only.
- Note 218 Only sulfites can be used as preservatives and antioxidants in the products covered by the Standard for Desiccated Coconut (CODEX STAN 177-1991).
- Note 219 Except for use at 5,000 mg/kg in non-alcoholic aniseed-based, coconut-based, and almond-based drinks.
- Note 220 For use in flavoured products heat treated after fermentation only.
- Note 221 For use in potato dough and pre-fried potato slices only.
- Note 222 For use in collagen-based casings with a water activity greater than 0.6 only.
- Note 223 Except for use at 3,000 mg/kg in products containing added fruits, vegetables, or meats.
- Note 224 Excluding aromatized beer.
- Note 225 Except for use in self-raising flour at 12,000 mg/kg.
- Note 226 Except for use as a meat tenderizer at 35,000 mg/kg.
- Note 227 For use in sterilized and UHT treated milks only.
- Note 228 Except for use at 1,320 mg/kg to stabilize higher protein liquid whey used for further processing into whey protein concentrates.
- Note 229 For use as a flour treatment agent, raising agent or leavening agent.
- Note 230 For use as an acidity regulator only.

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- Note 231 Only for use in flavoured fermented milks and flavoured fermented milks heat treated after fermentation.
- Note 232 Only for use in vegetable fats conforming to the Standard for Edible Fats and Oils Not Covered by Individual Standards (CODEX STAN 19-1981), singly or in combination.
- Note 233 As nisin.
- Note 234 For use as stabilizer or thickener only.
- Note 235 Use restricted to reconstitution and recombination only.
- Note 236 Excluding products conforming to the Standard for Cream and Prepared Creams (reconstituted cream, recombined cream, prepackaged liquid cream) (CODEX STAN 288-1976).
- Note 237 Excluding products conforming to the Standard for Processed Cereal-Based Foods for Infants and Young Children (CODEX STAN 74-1981).
- Note 238 GMP in foods corresponding to the Standard for Processed Cereal-Based Foods for Infants and Young Children (CODEX STAN 74-1981).
- Note 239 Excluding products conforming to the Standard for Canned Baby Foods (CODEX STAN 73-1981).
- Note 240 Within the limit for sodium listed in the Standard for Canned Baby Foods (CODEX STAN 73-1981).
- Note 241 For use as acidity regulator and raising agent.
- Note 242 For use as an antioxidant.
- Note 243 For use as a raising agent in products conforming to the Standard for Processed Cereal-based Foods for Infants and Young Children (CODEX STAN 74-1981) and as an acidity regulator in products conforming to the Standard for Canned Baby Foods (CODEX STAN 73-1981).
- Note 244 For use in biscuit dough.
- Note 245 For use in pickled vegetables, except for use in perilla in brine at 780 mg/kg.
- Note 246 Singly or in combination: aluminium ammonium sulphate (INS 523) and sodium aluminium phosphates (acidic and basic; (INS 541(i),(ii)).
- Note 247 For use in kuzukiri and harusame only.
- Note 248 For use as a raising agent.
- Note 249 For use as a raising agent in mixes for steamed breads and buns.
- Note 250 For use in boiled mollusks and tsukudani only.
- Note 251 For use in processed American cheese only.
- Note 252 For use in self-rising flour and self-rising corn meal only.
- Note 253 For use in dry mix hot chocolate only.
- Note 254 For use in salt applied to dry salted cheeses during manufacturing only.
- Note 255 For use at 1,700 mg/kg in seasonings applied to foods in food category 15.1.
- Note 256 For use in noodles, gluten-free pasta and pasta intended for hypoproteic diets only.
- Note 257 For use in shrimps and prawns only.
- Note 258 Except for use in maple syrup.
- Note 259 Singly or in combination: sodium aluminosilicate (INS 554) and calcium aluminium silicate (INS 556).
- Note 260 For use in powdered beverage whiteners only.
- Note 261 For use in heat-treated buttermilk only.
- Note 262 For use in edible fungi and fungus products.
- Note 263 20,000 mg/kg in pickled fungi.
- Note 264 Citric acid (INS 330) and Lactic acid (INS 270) 5,000 mg/kg singly or in combination in sterilized fungi.
- Note 265 For use in quick frozen French fried potatoes as a sequestrant.
- Note 266 Not for use in salted Atlantic herring and sprat.
- Note 267 Excluding products conforming to the Standard for Salted Fish and Dried Salted Fish of the Gadidae Family of Fishes (CODEX STAN 167-1989), the Standard for Dried Shark Fins (CODEX STAN 189-1993), the Standard for Crackers from Marine and Freshwater Fish, Crustaceans and Molluscan Shellfish (CODEX STAN 222-2001), and the Standard for Boiled Dried Salted Anchovies (CODEX STAN 236-2003).
- Note 301 Interim maximum level.