codex alimentarius commission E





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Agenda Item 2

CX/MMP 10/9/2 Add.1

December 2009

JOINT FAO/WHO FOOD STANDARDS PROGRAMME CODEX COMMITTEE ON MILK AND MILK PRODUCTS

Ninth Session

Auckland, New Zealand, 1-5 February 2009

MATTERS REFERRED FROM THE CODEX ALIMENTARIUS COMMISSION AND OTHER CODEX COMMITTEES AND TASK FORCES

REVIEW OF THE INCONSISTENCIES IN THE NAMES OF FOOD ADDITIVES IN STANDARDS FOR MILK AND MILK PRODUCTS WITH INS NOMENCLATURE¹

(prepared by the Codex Secretariat)

1. This document presents the results of the review of the inconsistencies of the names of food additives in standards for milk and milk products with the INS nomenclature of the Codex *Class Names and International Numbering System* (CAC/GL 36-1989) (see CX/MMP 10/9/2 para. 16).

Part. 1 - Standards which do not require amendments

- 2. The following standards do not require any amendments:
 - Standard for Butter (CODEX STAN 279-1971);
 - Standard for Milkfat Products (CODEX STAN 280-1973);
 - Standard for Evaporated Milks (CODEX STAN 281-1971);
 - Standard for Sweetened Condensed Milks (CODEX STAN 282-1973);
 - Group Standard for Cheese in Brine (CODEX STAN 208-1999).

Part. 2 - Standards which need only editorial amendments

- 3. The following standards require only editorial amendments to align the names of food additives with the nomenclature of CAC/GL 36-1989. Editorial amendments are presented in the Annex (deletion in double strikethrough font and addition in bold / underlined font):
 - Standard for Milk Powders and Cream Powder (CODEX STAN 207-1999);
 - Standard for a Blend of Evaporated Skimmed Milk and Vegetable Fat (CODEX STAN 250-2006);
 - Standard for a Blend of Skimmed Milk and Vegetable Fat (CODEX STAN 251-2006);
 - Standard for a Blend of Sweetened Condensed Milk and Vegetable Fat (CODEX STAN 252-2006);
 - Standard for aFat Spreads and Blended Spreads (CODEX STAN 256-2007);
 - Standard for Mozzarella (CODEX STAN 262-2007);
 - *Standard for Emmental* (CODEX STAN 269-1967);
 - Standard for Cottage Cheese (CODEX STAN 273-1968);

¹ Due to the nature of the matters covered, this document is available in English only.

- *Standard for Coulommiers* (CODEX STAN 274-1969);
- Standard for Cream Cheese (CODEX STAN 275-2007);
- Standard for Camembert (CODEX STAN 276-2007);
- Standard for Brie (CODEX STAN 277-2007); Standard for Cream and Prepared Creams (CODEX STAN 288-1976);
- General Standard for Whey Cheeses (CODEX STAN 289-1995);
- Standard for Edible Casein Products (CODEX STAN 290-1995).
- 4. The Committee **is asked** to agree with the editorial amendments proposed, as presented in the Annex

Part. 3 - Standards which need clarifications in addition to editorial amendments

5. The Committee is asked to clarify the following inconsistencies (grey shaded in the Annex to this document).

<u>Standard for Unripened Cheese including Fresh Cheese (CODEX STAN 221-2001); Standard for Cheese (CODEX STAN 283-1978) /</u>

6. The Committee **is asked to clarify** if "chlorophylls, copper complexes (INS 141) corresponds to: (i) chlorophylls and chlorophyllins, copper complexes (INS 141); or (ii) chlorophylls, copper complexes (INS 141(i)); or chlorophyllins, copper complexes, potassium and sodium salts (INS 141(ii)).

Standard for Fermented Milks (CODEX STAN 243-2003)

- 7. The Committee is asked to clarify:
 - if "disodium tartrate" (INS 335(ii)) should be replaced by sodium L(+)-tartrate (INS 335(ii));
 - if "zeaxanthin" (INS 161h(i)) should be replaced by: zeaxanthins (INS 161h); or zeaxanthin (synthetic) (INS 161h(i)); or zeaxanthin-rich extract from *Tagetes erecta* ("(INS 161h(ii));

Standard for Dairy Fat Spreads (CODEX STAN 253-2006)

8. The Committee **is asked to clarify** if alpha-tocopherol" (INS 307) should be replaced by: d-alpha-tocopherol (INS 307a); or dl-alpha-tocopherol (INS 307c).

Standard for Cheddar (CODEX STAN 263-1966); Standard for Danbo (CODEX STAN 264-1966); Standard for Edam (CODEX STAN 265-1966); Standard for Gouda (CODEX STAN 266-1966); Standard for Havarti (CODEX STAN 267-1966); Standard for Samsoe (CODEX STAN 268-1966); Standard for Tilsiter (CODEX STAN 270-1968); Standard for Saint-Paulin (CODEX STAN 271-1968); Standard for Provolone (CODEX STAN 272-1968);

- 9. The Committee **is asked to clarify** which food additive should be listed: i.e. "potassium propionate" (INS 283) or calcium propionate (INS 282).
- 10. In addition, the The Committee **is asked** to agree with the editorial amendments proposed for the above listed standards, as presented in the Annex to this document.

Part. 4 – Other standards

11. It is suggested to consider the editorial amendments, presented in the Annex to this document, of the general standards for: *Named Variety Process(ed) Cheese and Spreadable Process(ed) Cheese* (CODEX STAN 285-1978), *Process(ed) Cheese and Spreadable Process(ed) Cheese* (CODEX STAN 286-1978) and *Process(ed) Cheese Preparations (Processe(ed) Cheese Food and Process(ed) Cheese Spread)* (CODEX STAN 287-1978) in the light of the outcomes of the discussion under Agenda Item 4 "Report of the physical Working Group on the proposed draft Standard for Processed Cheese".

Annex

REVIEW OF THE INCONSISTENCIES IN THE NAMES OF FOOD ADDITIVES IN STANDARDS FOR MILK AND MILK PRODUCTS WITH INS NOMENCLATURE 2

STANDARD FOR MILK POWDERS AND CREAM POWDER (CODEX STAN 207-1999)

INS No.	Name	Maximum Level
Stabilizers		
331	Sodium citrates	5 g/kg singly or in combination,
332	Potassium citrates	expressed as anhydrous substances
Firming a	gents	
508	Potassium chloride	Limited by GMP
509	Calcium chloride	Limited by GMP
Acidity Ro	egulators	
339	Sodium phosphates	
340	Potassium phosphates	
450	Diphosphates	5 g/kg singly or in combination
451	Triphosphates	expressed as anhydrous substances
452	Polyphosphates	
500	Sodium carbonates	
501	Potassium carbonates	
Emulsifier	rs ·	·
322	Lecithins (or phospholipids from natural sources)	Limited by GMP
471	Mono- and diglycerides of fatty acids	2.5 g/kg
Anticakin	g Agents	
170(i)	Calcium carbonate	
341(iii)	Tricalcium ortho phosphate	
343(iii)	Trimagnesium ortho phosphate	
504(i)	Magnesium carbonate	
530	Magnesium oxide	
551	Silicon dioxide, amorphous	10 g/kg singly or in combination
552	Calcium silicate	
553	Magnesium silicates	
554	Sodium aluminosilicate	
556	Calcium aluminium silicate	
559	Aluminium silicate	
Antioxida	nts	
300	L-Ascorbic acid	0.5 g/kg expressed as ascorbic acid
301	Sodium ascorbate	
304	Ascorbyl palmitate	
320	Butylated hydroxyanisole (BHA)	0.01% m/m

GROUP STANDARD FOR CHEESES IN BRINE (CODEX STAN 208-1999)

INS No	Name	Maximum Level
Acidity re	gulators	
270	Lactic acid (L-, D- and DL-)	Limited by GMP
575	Glucono delta-lactone (GDL)	Limited by GMP

GROUP STANDARD FOR UNRIPENED CHEESE INCLUDING FRESH CHEESE (CODEX STAN 221-2001)

INS No.	Name	Maximum Level	
Acid			
260	Acetic acid, glacial	Limited by GMP	
270	Lactic acid (L-, D- and DL-)	Limited by GMP	
296	Malic acid (DL-)	Limited by GMP	
330	Citric acid	Limited by GMP	
338	Orthophosphoric acid	2 g/kg expressed as P ₂ O ₂	
507	Hydrochloric acid	Limited by GMP	
Acidity Re	Acidity Regulators		
170	Calcium carbonates	Limited by GMP	
500	Sodium carbonates	Limited by GMP	
501	Potassium carbonates	Limited by GMP	

² Editorial amendments are presented as follows: deletion in double strikethrough font and addition in **bold / underlined** font. Food additives names which require clarification by the Committee are grey shaded.

INS No.	Name	Maximum Level
575	Glucono delta-lactone (GDL)	Limited by GMP
	s/thickeners	<u>.</u>
		n compliance with the definition for milk products and only to the
	are functionally necessary taking into account any use of	
331	Sodium citrates	Limited by GMP
332	Potassium citrates	Limited by GMP
333	Calcium citrates	Limited by GMP
339 340	Sodium phosphates Potassium phosphates	
341	Calcium phosphates	
450(i)	Disodium diphosphate	3.5 g/kg, singly or in combination, expressed as P_2O_5
450(ii)	Trisodium diphosphate	
541	Sodium aluminium phosphate	
400	Alginic acid	Limited by GMP
401	Sodium alginate	Limited by GMP
402	Potassium alginate	Limited by GMP
403	Ammonium alginate	Limited by GMP
404	Calcium alginate	Limited by GMP
405	Propylene glycol alginate	5 mg/kg
406	Agar	Limited by GMP
407	Carrageenan and its Na, K, NH4 salts (includes	Limited by GMP
410	Carob bean gum	Limited by GMP
410	Guar gum	Limited by GMP Limited by GMP
413	Tragacanth gum	Limited by GMP
415	Xanthan gum	Limited by GMP
416	Karaya gum	Limited by GMP
417	Tara gum	Limited by GMP
440	Pectins	Limited by GMP
460	Cellulose <u>s</u>	Limited by GMP
466	Sodium carboxymethyl cellulose (cellulose gum)	Limited by GMP
576	Sodium gluconate	Limited by GMP
	tarches as follows:	
1400	Dextrins, roasted starch white and yellow	Limited by GMP
1401	Acid-treated starch Alkaline treated starch	Limited by GMP
1402	Bleached starch	Limited by GMP Limited by GMP
1403	Oxidized starch	Limited by GMP Limited by GMP
1405	Starches, enzyme-treated	Limited by GMP
1410	Monostarch phosphate	Limited by GMP
1110	Distarch phosphate esterified with sodium	Emilion by Givii
1412	trimetasphosphate;esterified with phosphorus	Limited by GMP
	oxyehloride	•
1413	Phosphated distarch phosphate	Limited by GMP
1414	Acetylated distarch phosphate	Limited by GMP
1420	Starch acetate esterified with acetic anhydride	Limited by GMP
1421	Starch acetate esterified with vinyl acetate	Limited by GMP
1422	Acetylated distarch adipate	Limited by GMP
1440	Hydroxypropyl starch	Limited by GMP
1442	Hydroxypropyl distarch phosphate	Limited by GMP
Colours	T	Limited by GMP
100	Curcumins (for edible cheese rind)	•
101	Riboflavins	Limited by GMP
140	Chlorophyll	Limited by GMP
141	Copper chlorophylls	15 mg/kg, singly or combined
160a(i)	β-Carotene (synthetic)	25 mg/kg
160a(ii)	Carotenes (natural extracts vegetable)	600 mg/kg
160b(ii)	Annatto extracts – norbixin based	25 mg/kg
160c	Paprika oleoresin s	Limited by GMP
160e	β-apo- <u>8'-</u> Carotenal	35 mg/kg
160f	β-apo-8'-Carotenoic acid, methyl or ethyl ester	35 mg/kg
162	Beet red	Limited by GMP
171	Titanium dioxide	Limited by GMP

INS No.	Name	Maximum Level
Preservatives		
200	Sorbic acid	1 allog of shoops singly or in combination assured as
202	Potassium sorbate	1 g/kg of cheese, singly or in combination, expressed as sorbic acid
203	Calcium sorbate	Sorbic acid
234	Nisin	12.5 mg/kg
280	Propionic acid	Limited by GMP
281	Sodium propionate	Limited by GMP
282	Calcium propionate	Limited by GMP
283	Potassium propionate	Limited by GMP
For surfac	e/rind treatment only:	
235	Pimariein (natamyein) Natamyein (pimaricin)	2 mg/dm ² of surface. Not present in a depth of 5mm
Foaming a	gents (for whipped products only)	
290	Carbon dioxide	Limited by GMP
941	Nitrogen	Limited by GMP
Sliced, cut	, shredded and grated products only (surface treat	ment)
Anticaking	gagents	
460	Cellulose <u>s</u>	Limited by GMP
551	Silicon dioxide, amorphous	
552	Calcium silicate	
553	Magnesium silicates	10 g/kg singly or in combination Silicates calculated as
554	Sodium aluminosilicate	10 g/kg singly or in combination. Silicates calculated as silicon dioxide
556	Calcium aluminium silicate	Sincon dioxide
559	Aluminium silicate	
560	Potassium silicate	
Preservati	ves	
200	Sorbic acid	1 g/kg of cheese, singly or in combination, expressed as
202	Potassium sorbate	sorbic acid
203	Calcium sorbate	SOLOIC GCIG
280	Propionic acid	Limited by GMP
281	Sodium propionate	Limited by GMP
282	Calcium propionate	Limited by GMP
283	Potassium propionate	Limited by GMP
235	Pimaricin (natamycin) Natamycin (pimaricin)	20 mg/kg applied to the surface added duringkneading and stretching process

STANDARDS FOR FERMENTED MILKS (CODEX STAN 243-2003)

INS No.	Name of Additive	Maximum Level
Acidity Regu	lators	
334	Tartaric acid (L(+)	
335(i)	Monosodium tartrate	
335(ii)	Disodium tartrate	2000 mg/lsg og tortorio gold
336(i)	Monopotassium tartrate	2000 mg/kg as tartaric acid
336(ii)	Dipotassium tartrate	
337	Potassium sodium <u>L(+)-</u> tartrate	
355	Adipic acid	
356	Sodium adipates	1500 /
357	Potassium adipates	1500 mg/kg, as adipic acid
359	Ammonium adipates	
Colours	, <u> </u>	
100(i)	Curcumin	100 mg/kg
101(i)	Riboflavin, synthetic	200 mg/lsg
101(ii)	Riboflavin 5'-phosphate sodium	300 mg/kg
102	Tartrazine	300 mg/kg
104	Quinoline yellow	150 mg/kg
110	Sunset yellow FCF	300 mg/kg
120	Carmines	150 mg/kg
122	Azorubine	150 mg/kg
124	Ponceau 4R	150 mg/kg
129	Allura red AC	300 mg/kg
132	Indigotine	100 mg/kg
133	Brilliant blue FCF	150 mg/kg
141(i)	Chlorophylls, copper complexes	
141(ii)	Chlorophyllins, copper complexes, potassium and sodium Na and K salts	500 mg/kg

INS No.	Name of Additive	Maximum Level
143	Fast green FCF	100 mg/kg
150b	Caramel II - caustic sulfite sulphite process	150 mg/kg
150c	Caramel III – ammonia process	2000 mg/kg
150d	Caramel IV – sulfite sulphite ammonia process	2000 mg/kg
151	Brilliant black (Black PN)	150 mg/kg
155	Brown HT	150 mg/kg
160a(i)	beta-Carotene (Synthetic)	
160e	beta-apo-8'-Carotenal	100/
160f	beta-apo-8'Carotenoic acid, Methyl or ethyl ester	100 mg/kg
160a(iii)	beta-Carotenes (Blakeslea trispora)	
160a(ii)	beta-Carotenes, vegetable	600 mg/kg
160b(i)	Annatto extracts, bixin-based	20 mg/kg as bixin
160b(ii)	Annatto extracts, norbixin-based	20 mg/kg as norbixin
160d	Lycopenes	500 mg/kg
161b(i)	Lutein from Tagetes erecta	150 mg/kg
161h(i)	Zeaxanthin	150 mg/kg
163(ii)	Grape skin extract	100 mg/kg
172(i)	Iron oxide, black	100 mg/kg
172(ii)	Iron oxide, red	100 mg/kg
172(iii)	Iron oxide, yellow	100 mg/kg
Emulsifiers	Holl oxide, yellow	
432	Polyoxyethylene (20) sorbitan monolaurate	
433	Polyoxyethylene (20) sorbitan monooleate	
434 434	Polyoxyethylene (20) sorbitan monopalmitate	3000 mg/kg
435	Polyoxyethylene (20) sorbitan	3000 Hig/kg
436	Polyoxyethylene (20) sorbitan	10000 //
472e	Diacetyltartaric and fatty acid esters of glycerol	10000 mg/kg
473	Sucrose esters of fatty acids	5000 mg/kg
474	Sucroglycerides	5000 mg/kg
475	Polyglycerol esters of fatty acids	2000 mg/kg
477	Propylene glycol esters of fatty acids	5000 mg/kg
481(i)	Sodium stearoyl lactylate	10000 mg/kg
482(i)	Calcium stearoyl lactylate	10000 mg/kg
491	Sorbitan monostearate	
492	Sorbitan tristearate	
493	Sorbitan monolaurate	5000 mg/kg
494	Sorbitan monooleate	
495	Sorbitan monopalmitate	
900a	Polydimethylsiloxane	50 mg/kg
Flavour Enha	nncers	
580	Magnesium gluconate	GMP
620	Glutamic acid (L+)-	GMP
621	Monosodium glutamate, L-	GMP
622	Monopotassium glutamate, L-	GMP
623	Calcium glutamate, di-L-	GMP
624	Monoammonium glutamate, L-	GMP
625	Magnesium glutamate, di-L-	GMP
626	Guanylic acid, 5'-	GMP
627	Disodium guanylate, 5'-	GMP
628	Dipotassium guanylate, 5'-	GMP
629	Calcium guanylate, 5'-	GMP
630	Inosinic acid, 5'-	GMP
	·	GMP GMP
631 632	Disodium inosinate, 5'-	
	Dipotassium inosinate, 5'-	GMP
633	Calcium inosinate, 5'-	GMP
634	Calcium ribonucleotides, 5'-	GMP
635	Disodium ribonucleotides, 5'-	GMP
636	Maltol	GMP
637	Ethyl maltol	GMP
Preservatives		
200	Sorbic acid	
201	Sodium sorbate	1000 mg/kg as sorbic acid
202	Potassium sorbate	1000 mg/kg as sorbic acid
203	Calcium sorbate	
210	Benzoic acid	300 mg/kg as benzoic acid

INS No.	Name of Additive	Maximum Level
211	Sodium benzoate	
212	Potassium benzoate	
213	Calcium benzoate	
234	Nisin	500 mg/kg
Stabilizers an		CMD
170(i) 331(iii)	Calcium carbonate Trisodium citrate	GMP GMP
338	Orthophosphoric acid	GWF
339(i)	Monosodium Orthophosphate-Sodium dihydrogen phosphate	1
339(ii)	Disodium Orthophosphate hydrogen phosphate	1
339(iii)	Trisodium Orthophosphate Trisodium Orthophosphate	-
340(i)	Monopotassium Orthophosphate Potassium dihydrogen phosphate	1
340(ii)	Dipotassium hydrogen Orthophosphate	1
340(iii)	Tripotassium Orthophosphate	1
341(i)	Monocalcium dihydrogen Orthophosphate	1
341(ii)	Di calcium <u>hydrogen</u> Ortho phosphate	1
341(iii)	Tricalcium Ortho phosphate	
342(i)	Mono Ammonium dihydrogen Orthophosphate	
342(ii)	Diammonium- <u>hydrogen</u> Orthophosphate	
343(i)	Mono Magnesium Orthophosphate	_
343(ii)	Di Magnesium <u>hydrogen</u> Ortho phosphate	1000 mg/kg, singly or in
343(iii)	Trimagnesium Ortho phosphate	- combination, as phosphorus
450(i)	Disodium diphosphate	
450(ii)	Trisodium diphosphate	4
450(iii)	Tetrasodium diphosphate	_
450(v)	Tetrapotassium diphosphate Dicalcium diphosphate	_
450(vi) 450(vii)	Calcium dipydrogen diphosphate	-
450(VII) 451(i)	Pentasodium triphosphate	1
451(ii)	Pentapotassium triphosphate	1
452(i)	Sodium polyphosphate	-
452(ii)	Potassium polyphosphate	1
452(iii)	Sodium calcium polyphosphate	1
452(iv)	Calcium polyphosphate	1
452(v)	Ammonium polyphosphate	7
542	Bone phosphate	
400	Alginic acid	GMP
401	Sodium alginate	GMP
402	Potassium alginate	GMP
403	Ammonium alginate	GMP
404	Calcium alginate	GMP
405	Propylene glycol alginate	GMP
406	Agar Carrageenan and its Na. K. NH _a . Ca and Mg salts (including	GMP
407	furcelleran)	GMP
407a	Processed eucheuma seaweed	GMP
410	Carob bean gum	GMP
412	Guar gum	GMP
413	Tragacanth gum	GMP
414	Gum arabic	GMP
415	Xanthan gum	GMP
416	Karaya gum	GMP
417	Tara gum	GMP
418	Gellan gum	GMP
425	Konjac flour	GMP
440	Pectins	GMP
459	beta-Cyclodextrin	5 mg/kg
460(i)	Microcrystalline cellulose	GMP
460(ii)	Powdered cellulose	GMP
461	Methyl cellulose	GMP
463	Hydroxypropyl cellulose	GMP CMP
464 465	Hydroxypropyl methyl cellulose Methyl ethyl cellulose	GMP GMP
465	Sodium carboxymethyl cellulose	GMP
467	Ethyl hydroxyethyl cellulose	GMP
TU /	Ediyi nyaronyomyi conarose	GIVII

INS No.	Name of Additive	Maximum Level
468	Cross-linked sodium carboxymethyl cellulose	GMP
469	Sodium carboxymethyl cellulose, enzymatically hydrolyzed	GMP
470(i)	Salts of myristic, palmitic and stearic acids with ammonia, calcium, potassium and sodium	GMP
470(ii)	Salts of oleic acid with calcium, potassium and sodium (Ca, K, Na)	GMP
471	Mono- and di- glycerides of fatty acids	GMP
472a	Acetic and fatty acid esters of glycerol	GMP
472b	Lactic and fatty acid esters of glycerol	GMP
472c	Citric and fatty acid esters of glycerol	GMP
508	Potassium chloride	GMP
509	Calcium chloride	GMP
511	Magnesium chloride	GMP
1200	Polydextroses _	GMP
1400	Dextrins, roasted starch	GMP
1401	Acid-treated starch	GMP
1402	Alkaline treated starch	GMP
1403	Bleached starch	GMP
1404	Oxidized starch	GMP
1405	Enzyme treated starch	GMP
1410	Monostarch phosphate	GMP
1412	Distarch phosphate	GMP
1413	Phosphated distarch phosphate	GMP
1414	Acetylated distarch phosphate	GMP
1420	Starch acetate	GMP
1422	Acetylated distarch adipate	GMP
1440	Hydroxypropyl starch	GMP
1442	Hydroxypropyl distarch phosphate	GMP
1450	Starch sodium octenyl succinate	GMP
1451	Acetylated oxidized starch	GMP
Sweeteners ³		
420	Sorbitols and Sorbitol Syrup	GMP
421	Mannitol	GMP
950	Acesulfame potassium	350 mg/kg
951	Aspartame	1000 mg/kg
952	Cyclamates	250 mg/kg
953	Isomalt	GMP
954	Saccharins Saccharins	100 mg/kg
955	Sucralose	400 mg/kg
956	Alitame	100 mg/kg
961	Neotame	100 mg/kg
962	Aspartame-acesulfame salt	350 mg/kg on an acesulfame potassium equivalent basis
964	Polyglycitol syrup	GMP
965	Maltitols (Including Maltitol Syrup)	GMP
966	Lactitol	GMP
967	Xylitol	GMP
968	Erythritol	GMP

STANDARD FOR A BLEND OF EVAPORATED SKIMMED MILK AND VEGETABLE FAT (CODEX STAN 250-2006)

INS No.	Name of Additive	Maximum Level
Emulsifier	s	
322	Lecithins	Limited by GMP
Stabilizers		
331(i)	Sodium dihydrogen citrate	Limited by GMP
331(iii)	Trisodium citrate	Limited by GMP
332(i)	Potassium dihydrogen citrate	Limited by GMP
332(ii)	Tripotassium citrate	Limited by GMP
333	Calcium citrate	Limited by GMP
508	Potassium chloride	Limited by GMP
509	Calcium chloride	Limited by GMP
Acidity Re	gulators	·
170(i)	Calcium carbonate	Limited by GMP

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 $^{^3}$ The use of sweeteners is limited to milk-and milk derivative-based products energy reduced or with no added sugar.

INS No.	Name of Additive	Maximum Level
339(i)	Monos Sodium dihydrogen Orthophosphate	
339(ii)	Disodium hydrogen Orthophosphate	
339(iii)	Trisodium Ortho phosphate	
340(i)	MonopPotassium dihydrogen Orthophosphate	
340(ii)	Dipotassium hydrogen Orthophosphate	
340(iii)	Tripotassium Orthophosphate	
341(i)	Monocalcium dihydrogen Orthophosphate	
341(ii)	Dicalcium hydrogen Orthophosphate	
341(iii)	Tricalcium Orthophosphate	
450(i)	Disodium diphosphate	
450(ii)	Trisodium diphosphate	4400 mg/kg, singly or in combination
450(iii)	Tetrasodium diphosphate	as phosphorous
450(v)	Tetrapotassium diphosphate	
450(vi)	Dicalcium diphosphate	
450(vii)	Calcium dihydrogen diphosphate	
451(i)	Pentasodium triphosphate	
451(ii)	Pentapotassium triphosphate	
452(i)	Sodium polyphosphate	
452(ii)	Potassium polyphosphate	
452(iii)	Sodium calcium polyphosphate	
452(iv)	Calcium polyphosphates	
452(v)	Ammonium polyphosphates	
500(i)	Sodium carbonate	Limited by GMP
500(ii)	Sodium hydrogen carbonate	Limited by GMP
500(iii)	Sodium sesquicarbonate	Limited by GMP
501(i)	Potassium carbonates	Limited by GMP
501(ii)	Potassium hydrogen carbonate	Limited by GMP
Thickener		
407	Carrageenan and its Na, K, NH ₄ , Ca and Mg salts	Limited by GMD
40/	(including furcelleran)	Limited by GMP
407a	Processed Eucheuma Seaweed (PES)	Limited by GMP

STANDARD FOR A BLEND OF SKIMMED MILK AND VEGETABLE FAT IN POWDERED FORM (CODEX STAN 251-2006)

INS No.	Name of Additive	Maximum Level
Stabilizers	<u> </u>	
331(i)	Sodium dihydrogen citrate	Limited by GMP
331(iii)	Trisodium citrate	Limited by GMP
332(i)	Potassium dihydrogen citrate	Limited by GMP
332(ii)	Tripotassium citrate	Limited by GMP
508	Potassium chloride	Limited by GMP
509	Calcium chloride	Limited by GMP
Acidity Reg	ulators	
339(i)	Mones Sodium dihydrogen Orthophosphate	
339(ii)	Disodium <u>hydrogen</u> Orthophosphate	
339(iii)	Trisodium Orthophosphate	
340(i)	Monop Potassium dihydrogen Orthophosphate	
340(ii)	Dipotassium <u>hydrogen</u> Orthophosphate	
340(iii)	Tripotassium Orthophosphate	
341(i)	Monocalcium dihydrogen Orthophosphate	
341(ii)	Dicalcium <u>hydrogen</u> Orthophosphate	
450(i)	Disodium diphosphate	
450(ii)	Trisodium diphosphate	4400 mg/kg, singly or in combination,
450(iii)	Tetrasodium diphosphate	as phosphorous
450(v)	Tetrapotassium diphosphate	
450(vi)	Dicalcium diphosphate	
450(vii)	Calcium dihydrogen diphosphate	
451(i)	Pentasodium triphosphate	
451(ii)	Pentapotassium triphosphate	
452(i)	Sodium polyphosphate	
452(ii)	Potassium polyphosphate	
452(iii)	Sodium calcium polyphosphate	
452(iv)	Calcium polyphosphates	
452(v)	Ammonium polyphosphates	

INS No.	Name of Additive	Maximum Level
500(i)	Sodium carbonate	Limited by GMP
500(ii)	Sodium hydrogen carbonate	Limited by GMP
500(iii)	Sodium sesquicarbonate	Limited by GMP
501(i)	Potassium carbonates	Limited by GMP
501(ii)	Potassium hydrogen carbonate	Limited by GMP
Emulsifiers		
322	Lecithins	Limited by GMP
471	Mono- and diglycerides of fatty acids	Limited by GMP
Anticaking	Agents	
170(i)	Calcium carbonate	Limited by GMP
504(i)	Magnesium carbonate	Limited by GMP
530	Magnesium oxide	Limited by GMP
551	Silicon dioxide, amorphous	Limited by GMP
552	Calcium silicate	Limited by GMP
553(i)	Magnesium silicate (synthetic)	Limited by GMP
553(iii)	Talc	Limited by GMP
554	Sodium aluminosilicate	Limited by GMP
556	Calcium aluminium silicate	Limited by GMP
559	Aluminium silicate	Limited by GMP
341(iii)	Tricalcium Orthophosphate	4400 mg/kg, singly or in combination as
343(iii)	Trimagnesium Orthophosphate	phosphorous
Antioxidant	S	
300	Ascorbic acid	700 // 1: :1
301	Sodium ascorbate	500 mg/kg as ascorbic acid
304	Ascorbyl palmitate	80 mg/kg, singly or in combination,
305	Ascorbyl stearate	as ascorbyl stearate
320	Butylated hydroxyanisole (BHA)	100 mg/kg singly or in combination.
321	Butylated hydroxytoluene (BHT)	Expressed on fat or oil basis
319	Tertiary butylhydroquinone (TBHQ)	r

$STANDARD\ FOR\ A\ BLEND\ OF\ SWEETENED\ CONDENSED\ SKIMMED\ MILK\ AND\ VEGETABLE\ FAT\ (CODEX\ STAN\ 252-2006)$

INS No.	Name of Additive	Maximum Level
Emulsifier	s	
322	Lecithins	Limited by GMP
Stabilizers		•
331(i)	Sodium dihydrogen citrate	Limited by GMP
331(iii)	Trisodium citrate	Limited by GMP
332(i)	Potassium dihydrogen citrate	Limited by GMP
332(ii)	Tripotassium citrate	Limited by GMP
333	Calcium citrate	Limited by GMP
508	Potassium chloride	Limited by GMP
509	Calcium chloride	Limited by GMP
Acidity Re	gulators	
170(i)	Calcium Carbonate	Limited by GMP
339(i)	MonosSodium dihydrogen Orthophosphate	4400 mg/kg, singly or in combination
339(ii)	Disodium <u>hydrogen</u> Orthophosphate	as phosphorous
339(iii)	Trisodium Ortho phosphate	
340(i)	MonopPotassium dihydrogen Orthophosphate	
340(ii)	Dipotassium <u>hydrogen</u> Orthophosphate	
340(iii)	Tripotassium Orthophosphate	
341(i)	Monocalcium dihydrogen Orthophosphate	
341(ii)	Dicalcium <u>hydrogen</u> Orthophosphate	
341(iii)	Tricalcium Ortho phosphate	
450(i)	Disodium diphosphate	
450(ii)	Trisodium diphosphate	
450(iii)	Tetrasodium diphosphate	_
450(v)	Tetrapotassium diphosphate	_
450(vi)	Dicalcium diphosphate	
450(vii)	Calcium dihydrogen diphosphate	_
451(i)	Pentasodium triphosphate	
451(ii)	Pentapotassium triphosphate	

INS No.	Name of Additive	Maximum Level
452(i)	Sodium polyphosphate	
452(ii)	Potassium polyphosphate	
452(iii)	Sodium calcium polyphosphate	
452(iv)	Calcium polyphosphates	
452(v)	Ammonium polyphosphates	
500(i)	Sodium carbonate	Limited by GMP
500(ii)	Sodium hydrogen carbonate	Limited by GMP
500(iii)	Sodium sesquicarbonate	Limited by GMP
501(i)	Potassium carbonates	Limited by GMP
501(ii)	Potassium hydrogen carbonate	Limited by GMP
Thickeners	3	
407	Carrageenan and its Na, K, NH ₄ , Ca and Mg salts	Limited by GMP
407	(including furcelleran)	J
407a	Processed eucheuma seaweed (PES)	Limited by GMP

STANDARD FOR DAIRY FAT SPREADS (CODEX STAN 253-2006)

INS No.	Name of Additive	Maximum Level
Colours		
100(i)	Curcumin	5 mg/kg
160a(i)	beta-eCarotenes, beta- (synthetic)	
160a(ii i)	beta-eCarotenes, beta- (Blakeslea triaspora)	25 / 1
160e	beta apo-Carotenal, beta-apo-8'-	35 mg/kg, singly or in combination
160f	β apo 8'-Carotenoic acid, methyl or ethyl ester, beta-apo- 8'-	
160b(i)	Annatto extracts, bixin based	20 mg/kg
Emulsifier	S	
432	Polyoxyethylene (20) sorbitan monolaurate	
433	Polyoxyethylene (20) sorbitan monooleate	10000 mg/kg, singly or in combination
434	Polyoxyethylene (20) sorbitan monopalmitate	(Dairy fat spreads for baking purposes only)
435	Polyoxyethylene (20) sorbitan monostearate	(Duny lut spreads for suming purposes sing)
436	Polyoxyethylene (20) sorbitan tristearate	
471	Mono- and di- glycerides of fatty acids	Limited by GMP
472a	Acetic and fatty acid esters of glycerol	Limited by GMP
472b	Lactic and fatty acid esters of glycerol	Limited by GMP
472c	Citric and fatty acid esters of glycerol	Limited by GMP
472e	Diacetyltartaric and fatty acid esters of glycerol	10000 mg/kg
473 <u>a</u>	Sucrose esters of fatty acids	10000 mg/kg, dairy fat spreads for baking purposes only.
474	Sucroglycerides	10000 mg/kg, dairy fat spreads for baking purposes only.
475	Polyglycerol esters of fatty acids	5000 mg/kg
476	Polyglycerol esters of interesterified ricinoleic acid	4000 mg/kg
481(i)	Sodium stearoyl lactylate	10000
482(i)	Calcium stearoy lactylate	10000 mg/kg, singly or in combination
491	Sorbitan monostearate	
492	Sorbitan tristearate	
493	Sorbitan monolaurate	10000 mg/kg, singly or in combination
494	Sorbitan monooleate	
495	Sorbitan monopalmitate	
Preservati	*	
200	Sorbic acid	2000 mg/kg, singly or in combination (as sorbic
201	Sodium sorbate	acid) for fat contents < 59% and 1000 mg/kg
202	Potassium sorbate	singly or in combination (as sorbic acid) for fat
203	Calcium sorbate	contents $\geq 59\%$
	s/thickeners	
340 (i)	MonopPotassium dihydrogen Orthophosphate	
340 (ii)	Dipotassium hydrogen Orthophosphate	
340 (iii)	Tripotassium Orthophosphate	880 mg/kg, singly or in combination,
341 (i)	Monocalcium dihydrogen Orthophosphate	as phosphorous
341 (ii)	Dicalcium hydrogen Orthophosphate	as phosphorous
341 (iii)	Tricalcium Orthophosphate	
450 (i)	Disodium diposphate	
400	Alginic acid	Limited by GMP
400 401	Sodium alginate	Limited by GMP Limited by GMP
TU1	Boulum aigmaic	Limited by Olvii

INS No.	Name of Additive	Maximum Level
403	Ammonium alginate	Limited by GMP
404	Calcium alginate	Limited by GMP
406	Agar	Limited by GMP
405	Propylene glycol alginate	3000 mg/kg
407	Carrageenan and its Na, K, NH ₄ , Ca and Mg salts (including furcelleran)	Limited by GMP
407a	Processed euchema seaweed (PES)	Limited by GMP
410	Carob bean gum	Limited by GMP
412	Guar gum	Limited by GMP
413	Tragacanth gum	Limited by GMP
414	Gum arabic	Limited by GMP
415	Xanthan gum	Limited by GMP
418	Gellan gum	Limited by GMP
422	Glycerol	Limited by GMP
440	Pectins	Limited by GMP
460 (i)	Microcrystalline cellulose	Limited by GMP
460 (ii)	Powdered cellulose	Limited by GMP
461	Methyl cellulose	Limited by GMP
463	Hydroxypropyl cellulose	Limited by GMP
464	Hydroxypropyl methyl cellulose	Limited by GMP
465	Methyl ethyl cellulose	Limited by GMP
466	Sodium carboxymethyl cellulose	Limited by GMP
500 (i)	Sodium carbonate	Limited by GMP
500(ii)	Sodium hydrogen carbonate	Limited by GMP
500 (iii)	Sodium sesquicarbonate	Limited by GMP
1400	Dextrin, roasted starch white and yellow	Limited by GMP
1401	Acid-treated starch	Limited by GMP
1402	Alkaline-treated starch	Limited by GMP
1403	Bleached starch	Limited by GMP
1404	Oxidized starch	Limited by GMP
1405	Starches, enzyme treated	Limited by GMP
1410	Monostarch phosphate	Limited by GMP
1412	Distarch phosphate esterified with Sodium trimetaphospahte; esterified with phosphorous exychloride	Limited by GMP
1413	Phosphated distarch phosphate	Limited by GMP
1414	Acetylated distarch phosphate	Limited by GMP
1420	Starch acetate esterified with acetic anhydride	Limited by GMP
1422	Acetylated distarch adipate	Limited by GMP
I ← / . / .		
1440	Hydroxypropyl starch	Limited by GMP
1440 1442	Hydroxypropyl starch Hydroxypropyl distarch phosphate	
1440	Hydroxypropyl starch Hydroxypropyl distarch phosphate	Limited by GMP
1440 1442 Acidity re	Hydroxypropyl starch Hydroxypropyl distarch phosphate gulators	Limited by GMP Limited by GMP
1440 1442 Acidity res 325	Hydroxypropyl starch Hydroxypropyl distarch phosphate gulators Sodium lactate	Limited by GMP Limited by GMP Limited by GMP
1440 1442 Acidity reg 325 326	Hydroxypropyl starch Hydroxypropyl distarch phosphate gulators Sodium lactate Potassium lactate Calcium lactate Magnesium lactate	Limited by GMP Limited by GMP Limited by GMP Limited by GMP
1440 1442 Acidity res 325 326 327 329 331(i)	Hydroxypropyl starch Hydroxypropyl distarch phosphate gulators Sodium lactate Potassium lactate Calcium lactate	Limited by GMP Limited by GMP Limited by GMP Limited by GMP Limited by GMP
1440 1442 Acidity res 325 326 327 329 331(i) 331(ii)	Hydroxypropyl starch Hydroxypropyl distarch phosphate gulators Sodium lactate Potassium lactate Calcium lactate Magnesium lactate Sodium dihydrogen citrate Disodium monohydrogen citrate	Limited by GMP Limited by GMP Limited by GMP Limited by GMP Limited by GMP Limited by GMP Limited by GMP
1440 1442 Acidity res 325 326 327 329 331(i) 331(ii) 334	Hydroxypropyl starch Hydroxypropyl distarch phosphate gulators Sodium lactate Potassium lactate Calcium lactate Magnesium lactate Sodium dihydrogen citrate Disodium monohydrogen citrate Tartaric acid (L(+))	Limited by GMP
1440 1442 Acidity res 325 326 327 329 331(i) 331(ii) 334 335 (i)	Hydroxypropyl starch Hydroxypropyl distarch phosphate gulators Sodium lactate Potassium lactate Calcium lactate Magnesium lactate Sodium dihydrogen citrate Disodium monohydrogen citrate Tartaric acid (L(+)) Monosodium tartrate	Limited by GMP
1440 1442 Acidity res 325 326 327 329 331(i) 331(ii) 334 335 (i) 335 (ii)	Hydroxypropyl starch Hydroxypropyl distarch phosphate gulators Sodium lactate Potassium lactate Calcium lactate Magnesium lactate Sodium dihydrogen citrate Disodium monohydrogen citrate Tartaric acid (L(+)) Monosodium tartrate DisSodium L (+)-tartrate	Limited by GMP Limited by GMP Limited by GMP
1440 1442 Acidity res 325 326 327 329 331(i) 331(ii) 334 335 (i) 335 (ii) 336 (i)	Hydroxypropyl starch Hydroxypropyl distarch phosphate gulators Sodium lactate Potassium lactate Calcium lactate Magnesium lactate Sodium dihydrogen citrate Disodium monohydrogen citrate Tartaric acid (L(+)) Monosodium tartrate DisSodium L (+)-tartrate Monopotassium tartrate	Limited by GMP
1440 1442 Acidity reg 325 326 327 329 331(i) 331(ii) 334 335 (i) 335 (ii) 336 (i) 336 (ii)	Hydroxypropyl starch Hydroxypropyl distarch phosphate gulators Sodium lactate Potassium lactate Calcium lactate Magnesium lactate Sodium dihydrogen citrate Disodium monohydrogen citrate Tartaric acid (L(+)) Monosodium tartrate DisSodium L (+)-tartrate Monopotassium tartrate Dipotassium tartrate	Limited by GMP Limited by GMP Limited by GMP
1440 1442 Acidity reg 325 326 327 329 331(i) 331(ii) 334 335 (i) 335 (ii) 336 (i) 336 (ii) 337	Hydroxypropyl starch Hydroxypropyl distarch phosphate gulators Sodium lactate Potassium lactate Calcium lactate Magnesium lactate Sodium dihydrogen citrate Disodium monohydrogen citrate Tartaric acid (L(+)) Monosodium tartrate DisSodium L (+)-tartrate Monopotassium tartrate Dipotassium sodium L(+)-tartrate Potassium sodium L(+)-tartrate	Limited by GMP Limited by GMP Limited by GMP
1440 1442 Acidity reg 325 326 327 329 331(i) 331(ii) 334 335 (i) 336 (i) 336 (i) 336 (ii) 337 339 (i)	Hydroxypropyl starch Hydroxypropyl distarch phosphate gulators Sodium lactate Potassium lactate Calcium lactate Magnesium lactate Sodium dihydrogen citrate Disodium monohydrogen citrate Tartaric acid (L(+)) Monosodium tartrate DisSodium L (+)-tartrate Monopotassium tartrate Dipotassium tartrate Potassium sodium L(+)-tartrate MonosSodium dihydrogen Orthophosphate	Limited by GMP Limited by GMP Source of the state of t
1440 1442 Acidity reg 325 326 327 329 331(i) 331(ii) 335 (i) 335 (i) 336 (i) 336 (ii) 337 339 (i) 339 (ii)	Hydroxypropyl starch Hydroxypropyl distarch phosphate gulators Sodium lactate Potassium lactate Calcium lactate Magnesium lactate Sodium dihydrogen citrate Disodium monohydrogen citrate Tartaric acid (L(+)) Monosodium tartrate Disodium L (+)-tartrate Monopotassium tartrate Dipotassium tartrate Potassium sodium L(+)-tartrate Monosodium dihydrogen Orthophosphate Disodium hydrogen Orthophosphate	Limited by GMP Limited by GMP Source of the state of t
1440 1442 Acidity reg 325 326 327 329 331(i) 331(ii) 335 (ii) 336 (i) 336 (ii) 337 339 (i) 339 (ii) 339 (iii)	Hydroxypropyl starch Hydroxypropyl distarch phosphate gulators Sodium lactate Potassium lactate Calcium lactate Magnesium lactate Sodium dihydrogen citrate Disodium monohydrogen citrate Tartaric acid (L(+)) Monosodium tartrate DisSodium L (+)-tartrate Monopotassium tartrate Dipotassium tartrate Potassium sodium L(+)-tartrate MonosSodium dihydrogen Orthophosphate Disodium hydrogen Orthophosphate Trisodium Orthophosphate	Limited by GMP Limited by GMP Source of the state of t
1440 1442 Acidity reg 325 326 327 329 331(i) 331(ii) 335 (ii) 336 (i) 336 (ii) 337 339 (ii) 339 (iii) 339 (iii) 339 (iii)	Hydroxypropyl starch Hydroxypropyl distarch phosphate gulators Sodium lactate Potassium lactate Calcium lactate Magnesium lactate Sodium dihydrogen citrate Disodium monohydrogen citrate Tartaric acid (L(+)) Monosodium tartrate Disodium L (+)-tartrate Monopotassium tartrate Dipotassium tartrate Dipotassium sodium L(+)-tartrate Potassium sodium L(+)-tartrate MonosSodium dihydrogen Orthophosphate Disodium hydrogen Orthophosphate Trisodium Orthophosphate OrthopPhosphoric acid	Limited by GMP Limited by GMP Source of the state of t
1440 1442 Acidity reg 325 326 327 329 331(i) 331(ii) 335 (ii) 336 (i) 336 (ii) 337 339 (ii) 339 (iii) 339 (iii) 339 (iii)	Hydroxypropyl starch Hydroxypropyl distarch phosphate gulators Sodium lactate Potassium lactate Calcium lactate Magnesium lactate Sodium dihydrogen citrate Disodium monohydrogen citrate Tartaric acid (L(+)) Monosodium tartrate Disodium L (+)-tartrate Monopotassium tartrate Dipotassium tartrate Potassium sodium L(+)-tartrate Potassium sodium L(+)-tartrate MonosSodium dihydrogen Orthophosphate Disodium hydrogen Orthophosphate Trisodium Orthophosphate OrthopPhosphoric acid Sodium hydroxide	Limited by GMP Limited by GMP Source of the state of t
1440 1442 Acidity reg 325 326 327 329 331(ii) 335 (ii) 335 (ii) 336 (ii) 336 (ii) 337 339 (ii) 339 (iii) 339 (iii) 339 (iii)	Hydroxypropyl starch Hydroxypropyl distarch phosphate gulators Sodium lactate Potassium lactate Calcium lactate Magnesium lactate Sodium dihydrogen citrate Disodium monohydrogen citrate Tartaric acid (L(+)) Monosodium tartrate PisSodium L (+)-tartrate Monopotassium tartrate Dipotassium tartrate Potassium sodium L(+)-tartrate MonosSodium dihydrogen Orthophosphate Disodium hydrogen Orthophosphate Trisodium Orthophosphate OrthopPhosphoric acid Sodium hydroxide Calcium hydroxide	Limited by GMP Limited by GMP Source of the state of t
1440 1442 Acidity reg 325 326 327 329 331(i) 331(ii) 335 (ii) 336 (i) 336 (ii) 337 339 (i) 339 (ii) 339 (iii) 339 (iii) 339 (iii) 340 350 (iii) 360 (iii) 370 (iiii) 370 (iiiii) 370 (iiiii) 370 (iiiii) 370 (iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	Hydroxypropyl starch Hydroxypropyl distarch phosphate gulators Sodium lactate Potassium lactate Calcium lactate Magnesium lactate Sodium dihydrogen citrate Disodium monohydrogen citrate Tartaric acid (L(+)) Monosodium tartrate Disodium L (+)-tartrate Monopotassium tartrate Dipotassium tartrate Potassium sodium L(+)-tartrate Monos Sodium dihydrogen Orthophosphate Disodium hydrogen Orthophosphate Trisodium Orthophosphate OrthopPhosphoric acid Sodium hydroxide Calcium hydroxide Tataria distarch phosphate OrthopPhosphoric acid Sodium hydroxide Calcium hydroxide	Limited by GMP Limited by GMP Source of the state of t
1440 1442 Acidity reg 325 326 327 329 331(ii) 331(iii) 334 335 (ii) 336 (ii) 336 (ii) 337 339 (ii) 339 (iii) 339 (iii) 339 (iii) 338 524 526 Antioxidat 304	Hydroxypropyl starch Hydroxypropyl distarch phosphate gulators Sodium lactate Potassium lactate Calcium lactate Magnesium lactate Sodium dihydrogen citrate Disodium monohydrogen citrate Tartaric acid (L(+)) Monosodium tartrate Disodium L (+)-tartrate Monopotassium tartrate Dipotassium sodium L(+)-tartrate Potassium sodium L(+)-tartrate MonosSodium dihydrogen Orthophosphate Disodium hydrogen Orthophosphate Trisodium Orthophosphate OrthopPhosphoric acid Sodium hydroxide Calcium hydroxide Calcium hydroxide Tts Ascorbyl palpitate	Limited by GMP Limited by GMP Source of the state of t
1440 1442 Acidity reg 325 326 327 329 331(i) 331(ii) 335 (i) 336 (i) 336 (ii) 337 339 (i) 339 (ii) 339 (iii) 338 524 526 Antioxidai 304 305	Hydroxypropyl starch Hydroxypropyl distarch phosphate gulators Sodium lactate Potassium lactate Calcium lactate Magnesium lactate Sodium dihydrogen citrate Disodium monohydrogen citrate Tartaric acid (L(+)) Monosodium tartrate Disodium L(+)-tartrate Monopotassium tartrate Dipotassium tartrate Potassium sodium L(+)-tartrate Potassium sodium L(+)-tartrate Monoes_Sodium dihydrogen Orthophosphate Disodium hydrogen Orthophosphate Trisodium Orthophosphate OrthopPhosphoric acid Sodium hydroxide Calcium hydroxide tts Ascorbyl palpitate Ascorbyl stearate	Limited by GMP Limited by GMP Source of the state of t
1440 1442 Acidity reg 325 326 327 329 331(ii) 331(iii) 334 335 (ii) 336 (ii) 336 (ii) 337 339 (ii) 339 (iii) 339 (iii) 339 (iii) 338 524 526 Antioxidat 304	Hydroxypropyl starch Hydroxypropyl distarch phosphate gulators Sodium lactate Potassium lactate Calcium lactate Magnesium lactate Sodium dihydrogen citrate Disodium monohydrogen citrate Tartaric acid (L(+)) Monosodium tartrate Disodium L (+)-tartrate Monopotassium tartrate Dipotassium sodium L(+)-tartrate Potassium sodium L(+)-tartrate MonosSodium dihydrogen Orthophosphate Disodium hydrogen Orthophosphate Trisodium Orthophosphate OrthopPhosphoric acid Sodium hydroxide Calcium hydroxide Calcium hydroxide Tts Ascorbyl palpitate	Limited by GMP Limited by GMP Source of the state of t

INS No.	Name of Additive	Maximum Level
310	Propyl gallate	200 mg/kg, singly or in combination: Butylated Hydroxyanisole (BHA, INS 320), Butylated Hydroxytoluene (BHT, INS 321), and Propyl Gallate (INS 310) as a combined maximum level of 200 mg/kg on a fat or oil basis. May be used only in dairy fat spreads intended for cooking purposes.
320	Butylated hydroxyanisole	200 mg/kg, singly or in combination: Butylated Hydroxyanisole (BHA, INS 320), Butylated Hydroxytoluene (BHT, INS 321), and Propyl Gallate (INS 310) as a combined maximum level of 200 mg/kg on a fat or oil basis. May be used only in dairy fat spreads intended for cooking purposes.
321	Butylated hydroxytoluene	75 mg/kg, singly or in combination: Butylated Hydroxyanisole (BHA, INS 320), Butylated Hydroxytoluene (BHT, INS 321), and Propyl Gallate (INS 310) as a combined maximum level of 200 mg/kg on a fat or oil basis. May be used only in dairy fat spreads intended for cooking purposes.
Anti-foam	ing agents	
900 a	Polydimethylsiloxane	10 mg/kg in dairy fat spreads for frying purposes, only.
Flavour er	nhancers	
627	Disodium 5'-guanylate	Limited by GMP
628	Dipotassium 5'-guanylate	Limited by GMP

STANDARD FOR FAT SPREADS AND BLENDED SPREADS (CODEX STAN 256-2007)

INS No.	Additive	Maximum Use Level
4.1 Acidity Regulators		
262(ii)	Sodium diacetate	1,000 mg/kg
334; 335(i), (ii); 336(i), (ii); 337	Tartrates	100 mg/kg (as tartaric acid)
338; 339(i), (ii), (iii); 340(i), (ii), (iii); 341(i), (ii), (iii); 342(i), (ii); 343(i), (ii), (iii); 450(i), (ii), (iii), (v), (vi); (vii), 451(i), (ii); 452(i), (ii), (iii), (iv), (v); 542	Phosphates	1,000 mg/kg (as Phosphorus)
4.2 Antifoaming Agents		
900a	Polydimethylsiloxane	10 mg/kg (frying purposes, only)
4.3 Antioxidants	<u></u>	
304, 305	Ascorbyl esters	500 mg/kg (as ascorbyl stearate)
307a	Tocopherol, d-alpha-	
307b	Tocopherol concentrate, mixed	500 mg/kg (Singly or in combination)
307c	Tocopherol, dl-alpha	
310	Propyl gallate	
319	Tertiary butylhydroquinone	200 mg/kg (fat or oil basis) singly or in
320	Butylated hydroxyanisole	combination.
321	Butylated hydroxytoluene	
384	Isopropyl citrates	100 mg/kg
385, 386	EDTAs	100 mg/kg (as anhydrous calcium disodium EDTA)
388, 389	Thiodipropionates	200 mg/kg (as thiodipropionic acid)
4.4 Colours		
100(i)	Curcumin	10 mg/kg
101(i), (ii)	Riboflavins	300 mg/kg
120	Carmines	500 mg/kg
150b	Caramel II - caustic sulfite process	500 mg/kg
150c	Caramel III - ammonia process	500 mg/kg
150d	Caramel IV - sulfite ammonia process	500 mg/kg
160a(ii)	beta-Carotenes, (vegetable)	1000 mg/kg
160a(i)	beta-Carotenes (synthetic)	
160a(iii)	beta-Carotenes (Blakeslea trispora)	
160e	beta-apo-8'-Carotenal	35 mg/kg singly or in combination
160f	<i>beta</i> -apo-8'-Carotenoic acid, methyl or ethyl ester	

INS No.	Additive	Maximum Use Level
160b(i)	Annatto extracts, bixin-based	100 mg/kg (as bixin)
4.5 Emulsifiers		
432, 433, 434, 435, 436	Polysorbates	10,000 mg/kg (singly or in combination)
472e	Diacetyltartaric and fatty acid esters of glycerol	10,000 mg/kg
473	Sucrose esters of fatty acids	10,000 mg/kg
474	Sucroglycerides	10,000 mg/kg
475	Polyglycerol esters of fatty acids	5,000 mg/kg
476	Polyglycerol esters of interesterified ricinoleic acid	4,000 mg/kg
477	Propylene glycol esters of fatty acids	20,000 mg/kg
479	Thermally oxidized soya bean oil interacted with mono- and diglycerides of fatty acids)	5,000 mg/kg (in fat emulsions for frying or baking purpose, only).
481(i), 482(i)	Stearoyl-2-lactylates	10,000 mg/kg (singly or in combination)
484	Stearyl citrate	100 mg/kg (fat or oil basis)
491, 492, 493, 494, 495	Sorbitan esters of fatty acids	10,000 mg/kg (singly or in combination)
4.6 Flavours		
Natural flavouring substances and art	ificial flavouring substances.	
4.7 Preservatives		
200, 201, 202, 203	Sorbates	2,000 mg/kg (singly or in combination) as sorbic acid)
210, 211, 212, 213	Benzoates	1,000 mg/kg (singly or in combination) (as benzoic acid))
If used in combination, the combined mg/kg.	d use shall not exceed 2000 mg/kg of which the	
4.8 Stabilizers and Thickener	s	
405	Propylene glycol alginate	3,000 mg/kg

STANDARD FOR MOZZARELLA (CODEX STAN 262-2007)

INS No.	Name of Additive	Maximum Level
Preservat	ives	•
200	Sorbic acid	
201	Sodium sorbate	1000 mg/kg
202	Potassium sorbate	singly or in combination as sorbic acid
203	Calcium sorbate	7
234	Nisin	12.5 mg/kg
235	Pimariein (natamyein) Natamycin (Pimaricin)	Not exceeding 2 mg/dm ² and not present in a depth of 5 mm
280	Propionic acid	
281	Sodium propionate	Limited by GMP
282	Calcium propionate	
283	Potassium propionate	7
Acidity R	egulators	·
170(i)	Calcium carbonate	Limited by GMP
261(i)	Potassium acetate	Limited by GMP
261(ii)	Potassium diacetate	Limited by GMP
262(i)	Sodium acetate	Limited by GMP
263	Calcium acetate	Limited by GMP
325	Sodium lactate	Limited by GMP
326	Potassium lactate	Limited by GMP
327	Calcium lactate	Limited by GMP
350(i)	Sodium hydrogen <u>DL</u> -malate	Limited by GMP
350(ii)	Sodium DL- malate	Limited by GMP
351(i)	Potassium hydrogen malate	Limited by GMP
351(ii)	Potassium malate	Limited by GMP
352(ii)	Calcium malate (D , L -)	Limited by GMP
500(i)	Sodium carbonate	Limited by GMP
500(ii)	Sodium hydrogen carbonate	Limited by GMP
500(iii)	Sodium sesquicarbonate	Limited by GMP
501(i)	Potassium carbonate	Limited by GMP
501(ii)	Potassium hydrogen carbonate	Limited by GMP
504(i)	Magnesium carbonate	Limited by GMP
504(ii)	Magnesium hydroxidegen carbonate	Limited by GMP
575	Glucono-delta-lactone	Limited by GMP

INS No.	Name of Additive	Maximum Level
577	Potassium gluconate	Limited by GMP
578	Calcium gluconate	Limited by GMP
Acids	Curciani giaconate	Elilited by Givii
260	Acetic acid	Limited by GMP
270	Lactic acid (L-, D- and DL-)	Limited by GMP
296	Malic acid (DL-)	Limited by GMP
330	Citric acid	Limited by GMP
338	OrthopPhosphoric acid	880 mg/kg as phosphorus
507	Hydrochloric acid	Limited by GMP
	,	Limited by GMP
Stabilizers		Limited by CMD
331(i)	Sodium dihydrogen citrate	Limited by GMP
332(i)	Potassium dihydrogen citrate	Limited by GMP
333	Calcium citrates	Limited by GMP
339(i)	Monos Sodium dihydrogen Orthophosphate	
339(ii)	Disodium <u>hydrogen</u> Orthophosphate	
339(iii)	Trisodium Ortho phosphate	
340(i)	Monop Potassium dihydrogen Orthophosphate	
340(ii)	Dipotassium <u>hydrogen</u> Orthophosphate	
340(iii)	Tripotassium Orthophosphate	
341(i)	Monocalcium dihydrogen Orthophosphate	
341(ii)	Dicalcium <u>hydrogen</u> Orthophosphate	
341(iii)	Tricalcium Ortho phosphate	
342(i)	Monoa Ammonium hydrogen orthophosphate	
342(ii)	Diammonium <u>hydrogen</u> orthophosphate	4400 mg/kg, singly or in combination,
343(ii)	Dim Magnesium <u>hydrogen</u> orthophosphate	expressed as phosphorus
343(iii)	Trimagnesium ortho phosphate	1 1
450(i)	Disodium diphosphate	
450(iii)	Tetrasodium diphosphate	
450(v)	Tetrapotassium diphosphate	
450(vi)	Dicalcium diphosphate	
451(i)	Pentasodium triphosphate	
451(ii)	Pentapotassium triphosphate	
452(i)	Sodium polyphosphate	
452(ii)	Potassium polyphosphate	
452(iv)	Calcium polyphosphate	
452(v)	Ammonium polyphosphate	
406	Agar	Limited by GMP
	Carrageenan and its Na, K, NH ₄ , Ca and Mg salts	·
407	(includes furcelleran)	Limited by GMP
407a	Processed Euchema seaweed (PES)	Limited by GMP
410	Carob bean gum	Limited by GMP
412	Guar gum	Limited by GMP
413	Tragacanth gum	Limited by GMP
415	Xanthan gum	Limited by GMP
416	Karaya gum	Limited by GMP Limited by GMP
417	Tara gum	Limited by GMP
440	Pectins Pectins	Limited by GMP Limited by GMP
466	Sodium carboxymethyl cellulose	Limited by GMP
Colours 140	Chlorophyila	Limited by GMP
	Chlorophylls Chlorophylls	, and the second
141(i)	Chlorophyll copper complexes	5 mg/kg
141(ii)	Chlorophyllin copper complex, sodium and potassium	singly or in combination
, ,	salts	1: 11 000
171	Titanium dioxide	Limited by GMP
Anticakin		· · · · · · · · ·
460(i)	Microcrystalline cellulose	Limited by GMP
460(ii)	Powdered cellulose	Limited by GMP
	Silicon dioxide, amorphous	
551		
552	Calcium silicate	10000 #
552 553(i)	Calcium silicate Magnesium silicate (synthetic)	10000 mg/kg
552 553(i) 554	Calcium silicate Magnesium silicate (synthetic) Sodium aluminosilicate	10000 mg/kg singly or in combination as silicon dioxide
552 553(i)	Calcium silicate Magnesium silicate (synthetic)	

INS No.	Name of Additive	Maximum Level
Colours		
101(i)	Riboflavin, synthetic	300 mg/kg
140	Chlorophylls	Limited by GMP
160a(i)	beta-Carotenes, (synthetic)	
160a(iii)	beta-Carotenes (Blakeslea triaspora)	35 mg/kg
160e	beta-apo-8'-Carotenal	Singly or in combination
160f	beta-apo-8'-Carotenoic acid, methyl or ethyl ester	
160a(ii)	beta-Carotenes, (vegetable)	600 mg/kg
160b(ii)	Annatto extracts, norbixin based	25 mg/kg
Preservati	ves	
1105	Lysozyme	Limited by GMP
200	Sorbic acid	1000 # 1 1 1
201	Sodium sorbate	1000 mg/kg based on sorbic acid.
202	Potassium sorbate	Surface Treatment only *.
203	Calcium sorbate	
234	Nisin	12.5 mg/kg
235	Pimariein (natamyein) Natamycin (Pimaricin)	2 mg/dm ² Not present at a depth of 5 mm. Surface Treatment only *
251	Sodium nitrate	37 mg/kg, Singly or in combination
252	Potassium nitrate	(expressed as nitrate ion)
280	Propionic acid	3000 mg/kg
281	Sodium propionate	Surface Treatment only *
282	Potassium propionate	· ·
Acidity Re	gulators	
170(i)	Calcium carbonate	Limited by GMP
504 (i)	Magnesium carbonate	Limited by GMP
575	Glucono delta-lactone	Limited by GMP
Anticaking		
460(i)	Microcrystalline cellulose	Limited by GMP
460(ii)	Powdered cellulose	Limited by GMP
551	Silicon dioxide, amorphous	_
552	Calcium silicate	10000 mg/kg
553(i)	Magnesium silicate	Singly or in combination
553(iii)	Talc	
554	Sodium aluminosilicate	Silicates calculated as silicon dioxide
556	Calcium aluminium silicate	
559	Aluminium silicate	

^(*) For the definition of cheese surface and rind see Appendix to the *General Standard for Cheese* (CODEX STAN 283-1978)

STANDARD FOR DANBO (CODEX STAN 264-1966)

INS No.	Name of Additive	Maximum Level	
Colours			
101(i)	Riboflavin, synthetic	300 mg/kg	
140	Chlorophyll <u>s</u>	Limited by GMP	
160a(i)	beta- <u>C</u> arotene <u>s.</u> (synthetic)		
160a(iii)	beta-Carotenes (Blakeslea triaspora)	35 mg/kg	
160e	beta-apo-8'-Carotenal	Singly or in combination	
160f	beta-apo-8'-Carotenoic acid, methyl or ethyl ester		
160a(ii)	beta-Carotenes, (vegetable)	600 mg/kg	
160b(ii)	Annatto extracts, norbixin based	25 mg/kg	
Preservati	Preservatives		
1105	Lysozyme	Limited by GMP	
200	Sorbic acid	1000 11 11 11 11	
201	Sodium sorbate	1000 mg/kg based on sorbic acid.	
202	Potassium sorbate	Surface Treatment only *.	
203	Calcium sorbate		
234	Nisin	12.5 mg/kg	
235	Pimariein (natamyein) Natamycin (Pimaricin)	2 mg/dm ² Not present at a depth of 5 mm. Surface Treatment only *	
251	Sodium nitrate	37 mg/kg, Singly or in combination	
252	Potassium nitrate	(expressed as nitrate ion)	
280	Propionic acid	3000 mg/kg	
281	Sodium propionate	Surface Treatment only *	
282	Potassium propionate		

Acidity Regulators			
170(i)	Calcium carbonate	Limited by GMP	
504 (i)	Magnesium carbonate	Limited by GMP	
575	Glucono delta-lactone	Limited by GMP	
Anticaking	Anticaking Agents		
460(i)	Microcrystalline cellulose	Limited by GMP	
460(ii)	Powdered cellulose	Limited by GMP	
551	Silicon dioxide, amorphous		
552	Calcium silicate		
553(i)	Magnesium silicate	10000 mg/kg	
553(iii)	Talc	singly or in combination	
554	Sodium aluminosilicate	Silicates calculated as silicon dioxide	
556	Calcium aluminium silicate		
559	Aluminium silicate		

^(*) For the definition of cheese surface and rind see Appendix to the *General Standard for Cheese* (CODEX STAN 283-1978)

STANDARD FOR EDAM (CODEX STAN 265-1966)

INS No.	Name of Additive	Maximum Level
Colours		
160a(i)	beta- <u>C</u> arotene <u>s</u> , (synthetic)	
160a(iii)	beta-Carotenes (Blakeslea triaspora)	35 mg/kg
160e	beta-apo-8'-Carotenal	Singly or in combination
160f	beta-apo-8'-Carotenoic acid, methyl or ethyl ester	
160a(ii)	beta-Carotenes, (vegetable)	600 mg/kg
160b(ii)	Annatto extracts, norbixin based	25 mg/kg
Preservativ	ves	
1105	Lysozyme	Limited by GMP
200	Sorbic acid	
201	Sodium sorbate	1000 mg/kg based on sorbic acid.
202	Potassium sorbate	Surface Treatment only *.
203	Calcium sorbate	
234	Nisin	12.5 mg/kg
235	Pimariein (natamyein) Natamycin (Pimaricin)	2 mg/dm ² Not present at a depth of 5 mm. Surface Treatment only *
251	Sodium nitrate	35 mg/kg, Singly or in combination
252	Potassium nitrate	(expressed as nitrate ion)
280	Propionic acid	3000 mg/kg
281	Sodium propionate	Surface Treatment only *
282	Potassium propionate	,
Acidity Re		
170(i)	Calcium carbonate	Limited by GMP
504 (i)	Magnesium carbonate	Limited by GMP
575	Glucono delta-lactone	Limited by GMP
Anticaking		
460(i)	Microcrystalline cellulose	Limited by GMP
460(ii)	Powdered cellulose	Limited by GMP
551	Silicon dioxide, amorphous	
552	Calcium silicate	10000 //
553(i)	Magnesium silicate	10000 mg/kg
553(iii)	Talc	singly or in combination
554	Sodium aluminosilicate	Silicates calculated as silicon dioxide
556	Calcium aluminium silicate	
559	Aluminium silicate	

^(*) For the definition of cheese surface and rind see Appendix to the *General Standard for Cheese* (CODEX STAN 283-1978)

STANDARD FOR GOUDA (CODEX STAN 266-1966)

INS No.	Name of Additive	Maximum Level
Colours		
160a(i)	beta- <u>C</u> arotene <u>s.</u> (synthetic)	
160a(iii)	beta- <u>C</u> arotene <u>s</u> (Blakeslea triaspora)	35 mg/kg
160e	<i>beta</i> -apo- <u>8'</u> -Carotenal	Singly or in combination
160f	beta-apo-8'-Carotenoic acid, methyl or ethyl ester	
160a(ii)	beta-Carotenes, (vegetable)	600 mg/kg
160b(ii)	Annatto extracts, norbixin based	25 mg/kg

Preservat	ives	
1105	Lysozyme	Limited by GMP
200	Sorbic acid	
201	Sodium sorbate	1000 mg/kg based on sorbic acid.
202	Potassium sorbate	Surface Treatment only *.
203	Calcium sorbate	
234	Nisin	12.5 mg/kg
235	Pimariein (natamyein) Natamycin (Pimaricin)	2 mg/dm ² Not present at a depth of 5 mm. Surface Treatment only *
251	Sodium nitrate	35 mg/kg, Singly or in combination
252	Potassium nitrate	(expressed as nitrate ion)
280	Propionic acid	3000 mg/kg
281	Sodium propionate	Surface Treatment only *
282	Potassium propionate	
Acidity R	egulators	
170(i)	Calcium carbonate	Limited by GMP
504 (i)	Magnesium carbonate	Limited by GMP
575	Glucono delta-lactone	Limited by GMP
Anticakin		
460(i)	Microcrystalline cellulose	Limited by GMP
460(ii)	Powdered cellulose	Limited by GMP
551	Silicon dioxide, amorphous	
552	Calcium silicate	10000 "
553(i)	Magnesium silicate	10000 mg/kg
553(iii)	Talc	singly or in combination
554	Sodium aluminosilicate	Silicates calculated as silicon dioxide
556	Calcium aluminium silicate	
559	Aluminium silicate	

^(*) For the definition of cheese surface and rind see Appendix to the *General Standard for Cheese* (CODEX STAN 283-1978)

STANDARD FOR HAVARTI (CODEX STAN 267-1966)

INS No.	Name of Additive	Maximum Level
Colours		·
160a(i)	beta-Carotenes, (synthetic)	
160a(iii)	beta-Carotenes (Blakeslea triaspora)	35 mg/kg
160e	beta-apo-8'-Carotenal	Singly or in combination
160f	beta-apo-8'-Carotenoic acid, methyl or ethyl ester	7
160a(ii)	beta-Carotenes, (vegetable)	600 mg/kg
160b(ii)	Annatto extracts, norbixin based	25 mg/kg
Preservati	ives	
1105	Lysozyme	Limited by GMP
200	Sorbic acid	
201	Sodium sorbate	1000 mg/kg based on sorbic acid.
202	Potassium sorbate	Surface Treatment only *.
203	Calcium sorbate	7
234	Nisin	12.5 mg/kg
235	Pimariein (natamyein) Natamycin (Pimaricin)	2 mg/dm ² Not present at a depth of 5 mm. Surface Treatment only *
251	Sodium nitrate	35 mg/kg, Singly or in combination
252	Potassium nitrate	(expressed as nitrate ion)
280	Propionic acid	3000 mg/kg
281	Sodium propionate	Surface Treatment only *
282	Potassium propionate	T '
Acidity Ro	egulators	
170(i)	Calcium carbonate	Limited by GMP
504 (i)	Magnesium carbonate	Limited by GMP
575	Glucono delta-lactone	Limited by GMP
Anticakin	g Agents	
460(i)	Microcrystalline cellulose	Limited by GMP
460(ii)	Powdered cellulose	Limited by GMP
551	Silicon dioxide, amorphous	10000 mg/kg
552	Calcium silicate	singly or in combination
553(i)	Magnesium silicate	Silicates calculated as silicon dioxide
553(iii)	Talc	
554	Sodium aluminosilicate	
556	Calcium aluminium silicate	

550	A1 :: '1'
559	Aluminium silicate
00)	1 1141111114111 51114414

^(*) For the definition of cheese surface and rind see Appendix to the *General Standard for Cheese* (CODEX STAN 283-1978)

STANDARD FOR SAMSØ (CODEX STAN 268-1966)

INS No.	Name of Additive	Maximum Level
Colours		
160a(i)	beta- <u>C</u> arotene <u>s,</u> (synthetic)	
160a(iii)	beta- <u>C</u> arotene <u>s</u> (Blakeslea triaspora)	35 mg/kg
160e	beta-apo-8'-Carotenal	Singly or in combination
160f	beta-apo-8'-Carotenoic acid, methyl or ethyl ester	
160a(ii)	beta-Carotenes, (vegetable)	600 mg/kg
160b(ii)	Annatto extracts, norbixin based	25 mg/kg
Preservati	ves	•
1105	Lysozyme	Limited by GMP
200	Sorbic acid	
201	Sodium sorbate	1000 mg/kg based on sorbic acid.
202	Potassium sorbate	Surface Treatment only *.
203	Calcium sorbate	
234	Nisin	12.5 mg/kg
235	Pimariein (natamyein) Natamycin (Pimaricin)	2 mg/dm ² Not present at a depth of 5 mm. Surface Treatment only *
251	Sodium nitrate	35 mg/kg, Singly or in combination
252	Potassium nitrate	(expressed as nitrate ion)
280	Propionic acid	3000 mg/kg
281	Sodium propionate	Surface Treatment only *
282	Potassium propionate	· ·
Acidity Ro		
170(i)	Calcium carbonate	Limited by GMP
504 (i)	Magnesium carbonate	Limited by GMP
575	Glucono delta-lactone	Limited by GMP
Anticakin		
460(i)	Microcrystalline cellulose	Limited by GMP
460(ii)	Powdered cellulose	Limited by GMP
551	Silicon dioxide, amorphous	
552	Calcium silicate	10000 //
553(i)	Magnesium silicate	10000 mg/kg
553(iii)	Talc	singly or in combination Silicates calculated as silicon dioxide
554	Sodium aluminosilicate	Silicates calculated as silicon dioxide
556	Calcium aluminium silicate	_
559	Aluminium silicate	
*		1.6. 1 1.6 CL (CODEN CEAN 202 1070)

^(*) For the definition of cheese surface and rind see Appendix to the *General Standard for Cheese* (CODEX STAN 283-1978)

STANDARD FOR EMMENTAL (CODEX STAN 269-1967)

INS No.	Name of Additive	Maximum Level
Colours		·
160a(i)	beta- <u>C</u> arotene <u>s</u> , (synthetic)	
160a(iii)	beta- <u>C</u> arotene <u>s</u> (Blakeslea triaspora)	35 mg/kg
160e	beta-apo-8'-Carotenal	Singly or in combination
160f	beta-apo-8'-Carotenoic acid, methyl or ethyl ester	
160a(ii)	beta-Carotenes, (vegetable)	600 mg/kg
160b(ii)	Annatto extracts, norbixin based	25 mg/kg
Preservat	ives	
1105	Lysozyme	Limited by GMP
200	Sorbic acid	
201	Sodium sorbate	1000 mg/kg based on sorbic acid.
202	Potassium sorbate	Surface Treatment only *.
203	Calcium sorbate	
234	Nisin	12.5 mg/kg
235	Pimaricin (natamycin) Natamycin (Pimaricin)	2 mg/dm ² Not present at a depth of 5 mm. Surface Treatment only *
251	Sodium nitrate	35 mg/kg, Singly or in combination
252	Potassium nitrate	(expressed as nitrate ion)
Acidity R	egulators	
170(i)	Calcium carbonate	Limited by GMP
504 (i)	Magnesium carbonate	Limited by GMP

INS No.	Name of Additive	Maximum Level
575	Glucono delta-lactone	Limited by GMP
Anticaking	g Agents	
460(i)	Microcrystalline cellulose	Limited by GMP
460(ii)	Powdered cellulose	Limited by GMP
551	Silicon dioxide, amorphous	
552	Calcium silicate	
553(i)	Magnesium silicate	10000 mg/kg
553(iii)	Talc	singly or in combination
554	Sodium aluminosilicate	Silicates calculated as silicon dioxide
556	Calcium aluminium silicate	
559	Aluminium silicate	

^(*) For the definition of cheese surface and rind see Appendix to the *General Standard for Cheese* (CODEX STAN 283-1978)

STANDARD FOR TILSITER (CODEX STAN 270-1968)

INS No.	Name of Additive	Maximum Level
Colours		-
160a(i)	beta- <u>C</u> arotene <u>s</u> , (synthetic)	
160a(iii)	beta-Carotenes (Blakeslea triaspora)	35 mg/kg
160e	beta-apo-8'-Carotenal	Singly or in combination
160f	beta-apo-8'-Carotenoic acid, methyl or ethyl ester	7
160a(ii)	beta-Carotenes, (vegetable)	600 mg/kg
160b(ii)	Annatto extracts, norbixin based	25 mg/kg
Preservativ	ves	
1105	Lysozyme	Limited by GMP
200	Sorbic acid	
201	Sodium sorbate	1000 mg/kg based on sorbic acid.
202	Potassium sorbate	Surface Treatment only *.
203	Calcium sorbate	
234	Nisin	12.5 mg/kg
235	Pimariein (natamyein) Natamycin (Pimaricin)	2 mg/dm ² Not present at a depth of 5 mm. Surface Treatment only *
251	Sodium nitrate	35 mg/kg, Singly or in combination
252	Potassium nitrate	(expressed as nitrate ion)
280	Propionic acid	3000 mg/kg
281	Sodium propionate	Surface Treatment only *
282	Potassium propionate	
Acidity Re	<u> </u>	
170(i)	Calcium carbonate	Limited by GMP
504 (i)	Magnesium carbonate	Limited by GMP
575	Glucono delta-lactone	Limited by GMP
Anticaking		
460(i)	Microcrystalline cellulose	Limited by GMP
460(ii)	Powdered cellulose	Limited by GMP
551	Silicon dioxide, amorphous	
552	Calcium silicate	10000 #
553(i)	Magnesium silicate	10000 mg/kg
553(iii)	Talc	singly or in combination
554	Sodium aluminosilicate	Silicates calculated as silicon dioxide
556	Calcium aluminium silicate	_
559	Aluminium silicate	

^(*) For the definition of cheese surface and rind see Appendix to the *General Standard for Cheese* (CODEX STAN 283-1978)

STANDARD FOR SAINT-PAULIN (CODEX STAN 271-1968)

INS No.	Name of Additive	Maximum Level
Colours		
160a(i)	beta- <u>C</u> arotene <u>s</u> , (synthetic)	
160a(iii)	beta-Carotenes (Blakeslea triaspora)	35 mg/kg
160e	<i>beta-</i> apo- <u>8'</u> -Carotenal	Singly or in combination
160f	beta-apo-8'-Carotenoic acid, methyl or ethyl ester	
160a(ii)	beta-Carotenes, (vegetable)	600 mg/kg
160b(ii)	Annatto extracts, norbixin based	25 mg/kg
Preservati	ves	
1105	Lysozyme	Limited by GMP
200	Sorbic acid	1000 mg/kg based on sorbic acid.

201	Sodium sorbate	Surface Treatment only *.
202	Potassium sorbate	
203	Calcium sorbate	
234	Nisin	12.5 mg/kg
235	Pimaricin (natamycin) Natamycin (Pimaricin)	2 mg/dm ² Not present at a depth of 5 mm. Surface Treatment only *
251	Sodium nitrate	35 mg/kg, Singly or in combination
252	Potassium nitrate	(expressed as nitrate ion)
280	Propionic acid	3000 mg/kg
281	Sodium propionate	Surface Treatment only *
282	Potassium propionate	· ·
Acidity Re		
170(i)	Calcium carbonate	Limited by GMP
504 (i)	Magnesium carbonate	Limited by GMP
575	Glucono delta-lactone	Limited by GMP
Anticaking	g Agents	
460(i)	Microcrystalline cellulose	Limited by GMP
460(ii)	Powdered cellulose	Limited by GMP
551	Silicon dioxide, amorphous	
552	Calcium silicate	
553(i)	Magnesium silicate	10000 mg/kg
553(iii)	Talc	singly or in combination
554	Sodium aluminosilicate	Silicates calculated as silicon dioxide
556	Calcium aluminium silicate	
559	Aluminium silicate	

^(*) For the definition of cheese surface and rind see Appendix to the *General Standard for Cheese* (CODEX STAN 283-1978)

STANDARD FOR PROVOLONE (CODEX STAN 272-1968)

INS No.	Name of Additive	Maximum Level
Colours		•
160a(i)	beta-Carotenes, (synthetic)	
160a(iii)	beta- <u>C</u> arotene <u>s</u> (Blakeslea triaspora)	35 mg/kg
160e	beta-apo- <u>8'</u> -Carotenal	Singly or in combination
160f	beta-apo-8'-Carotenoic acid, methyl or ethyl ester	
160a(ii)	beta-Carotenes, (vegetable)	600 mg/kg
171	Titanium dioxide	Limited by GMP
160b(ii)	Annatto extracts, norbixin based	25 mg/kg
Preservati	ves	
1105	Lysozyme	Limited by GMP
200	Sorbic acid	
201	Sodium sorbate	1000 mg/kg based on sorbic acid.
202	Potassium sorbate	Surface Treatment only *.
203	Calcium sorbate	
234	Nisin	12.5 mg/kg
235	Pimariein (natamyein) Natamycin (Pimaricin)	2 mg/dm ² Not present at a depth of 5 mm. Surface Treatment only *
239	Hexamethylene tetramine	25 mg/kg Expressed as formaldehyde
251	Sodium nitrate	35 mg/kg, Singly or in combination
252	Potassium nitrate	(expressed as nitrate ion)
280	Propionic acid	3000 mg/kg
281	Sodium propionate	Surface Treatment only *
282	Potassium propionate	j
Acidity Re	gulators	
170(i)	Calcium carbonate	Limited by GMP
504 (i)	Magnesium carbonate	Limited by GMP
575	Glucono delta-lactone	Limited by GMP
Anticaking		
460(i)	Microcrystalline cellulose	Limited by GMP
460(ii)	Powdered cellulose	Limited by GMP
551	Silicon dioxide, amorphous	
552	Calcium silicate	10000
553(i)	Magnesium silicate	10000 mg/kg
553(iii)	Talc	singly or in combination
554	Sodium aluminosilicate	Silicates calculated as silicon dioxide
556	Calcium aluminium silicate	
559	Aluminium silicate	

(*) For the definition of cheese surface and rind see Appendix to the *General Standard for Cheese* (CODEX STAN 283-1978)

STANDARD FOR COTTAGE CHEESE (CODEX STAN 273-1968)

INS No.	Name of Additive	Maximum Level		
Preservati	Preservatives			
200	Sorbic acid	1000 mg/kg		
201	Sodium sorbate	singly or in combination		
202	Potassium sorbate	as sorbic acid		
203	Calcium sorbate	<u> </u>		
234	Nisin	12.5 mg/kg		
280	Propionic acid			
281	Sodium propionate	Limited by GMP		
282	Calcium propionate	Elimited by Givii		
283	Potassium propionate			
Acidity Re				
170(i)	Calcium carbonate	Limited by GMP		
261(i)	Potassium acetate	Limited by GMP		
261(ii)	Potassium diacetate	Limited by GMP		
262(i)	Sodium acetate	Limited by GMP		
263	Calcium acetate	Limited by GMP		
325	Sodium lactate	Limited by GMP		
326	Potassium lactate	Limited by GMP		
327	Calcium lactate	Limited by GMP		
350(i)	Sodium hydrogen DL -malate	Limited by GMP		
350(ii)	Sodium DL -malate	Limited by GMP		
351(i)	Potassium hydrogen malate	Limited by GMP		
351(ii)	Potassium malate	Limited by GMP		
352(ii)	Calcium malate (D, L-)	Limited by GMP		
500(i)	Sodium carbonate	Limited by GMP		
500(ii)	Sodium hydrogen carbonate	Limited by GMP		
500(iii)	Sodium sesquicarbonate	Limited by GMP		
501(i)	Potassium carbonate	Limited by GMP		
501(ii)	Potassium hydrogen carbonate	Limited by GMP		
504(i)	Magnesium carbonate	Limited by GMP		
504(ii)	Magnesium hydroxidegen carbonate	Limited by GMP		
575	Glucono-delta-lactone	Limited by GMP		
577	Potassium gluconate	Limited by GMP		
578	Calcium gluconate	Limited by GMP		
Acids	Calcium giuconate	Limited by Givir		
260	Acetic acid	Limited by GMP		
270	Lactic acid (L-, D- and DL-)	Limited by GMP		
296	Malic acid (DL-)	Limited by GMP Limited by GMP		
330	Citric acid	Limited by GMP Limited by GMP		
338	OrthopPhosphoric acid	880 mg/kg as phosphorus		
507	Hydrochloric acid	Limited by GMP		
Stabilizers Stabilizers	· ·	Limited by Givir		
331(i)	Sodium dihydrogen citrate	Limited by CMD		
331(i) 332(i)	Potassium dihydrogen citrate	Limited by GMP Limited by GMP		
332(1)	Calcium citrates	Limited by GMP Limited by GMP		
339(i)	Monos Sodium dihydrogen Orthophosphate	1300 mg/kg, singly or in combination,		
339(ii)	Disodium <u>hydrogen</u> Ortho phosphate	expressed as phosphorus		
339(iii)	Trisodium Orthophosphate	expressed as phosphorus		
340(i)	MonopPotassium dihydrogen Orthophosphate	 		
340(ii)	Dipotassium <u>hvdrogen</u> Orthophosphate Tripotassium Orthophosphate			
340(iii)				
341(i)	Monocalcium dihydrogen Orthophosphate	 		
341(ii)	Dicalcium hydrogen Orthophosphate	 		
341(iii)	Tricalcium Orthophosphate Monoa Ammonium hydrogen orthophosphate	 		
342(i)		 		
342(ii)	Diammonium hydrogen orthophosphate	 		
343(ii)	Dim Magnesium hydrogen orthophosphate	_		
343(iii)	Trimagnesium ortho phosphate	_		
450(i)	Disodium diphosphate	_		
450(iii)	Tetrasodium diphosphate	<u> </u>		
450(v)	Tetrapotassium diphosphate	<u> </u>		
450(vi)	Dicalcium diphosphate			

INS No.	Name of Additive	Maximum Level
451(i)	Pentasodium triphosphate	
451(ii)	Pentapotassium triphosphate	
452(i)	Sodium polyphosphate	
452(ii)	Potassium polyphosphate	
452(iv)	Calcium polyphosphate	
452(v)	Ammonium polyphosphate	
400	Alginic acid	Limited by GMP
401	Sodium alginate	Limited by GMP
402	Potassium alginate	Limited by GMP
403	Ammonium alginate	Limited by GMP
404	Calcium alginate	Limited by GMP
405	Propylene glycol alginate	5000 mg/kg
406	Agar	Limited by GMP
407	Carrageenan and its Na, K, NH₄, Ca and Mg salts	Limited by GMP
407a	Processed Euchema seaweed (PES)	Limited by GMP
410	Carob bean gum	Limited by GMP
412	Guar gum	Limited by GMP
413	Tragacanth gum	Limited by GMP
415	Xanthan gum	Limited by GMP
416	Karaya gum	Limited by GMP
417	Tara gum	Limited by GMP
440	Pectins	Limited by GMP
466	Sodium carboxymethyl cellulose	Limited by GMP
Stabilizer	s (Modified Starches)	•
1400	Dextrins, roasted Starch	Limited by GMP
1401	Acid-treated Starch	Limited by GMP
1402	Alkaline-treated starch	Limited by GMP
1403	Bleached starch	Limited by GMP
1404	Oxidized starch	Limited by GMP
1405	Starches, enzyme-treated	Limited by GMP
1410	Monostarch phosphate	Limited by GMP
1412	Distarch phosphate	Limited by GMP
1413	Phosphated distarch phosphate	Limited by GMP
1414	Acetylated distarch phosphate	Limited by GMP
1420	Starch Acetate	Limited by GMP
1422	Acetylated distarch adipate	Limited by GMP
1440	Hydroxypropyl starch	Limited by GMP
1442	Hydroxypropyl distarch phosphate	Limited by GMP

STANDARD FOR COULOMMIERS (CODEX STAN 274-1969)

INS No.	Name of Additive	Maximum Level
Colours		
160a(i)	beta- <u>C</u> arotene <u>s</u> , (synthetic)	
160a(iii)	beta- <u>C</u> arotene <u>s</u> (Blakeslea triaspora)	35 mg/kg
160e	<i>beta</i> -apo- <u>8'</u> -Carotenal	Singly or in combination
160f	beta-apo-8'-Carotenoic acid, methyl or ethyl ester	
160a(ii)	beta-Carotenes, (vegetable)	600 mg/kg
160b(ii)	Annatto extracts, norbixin based	25 mg/kg
Acidity Regulators		
575	Glucono delta-lactone	Limited by GMP

STANDARD FOR CREAM CHEESE (CODEX STAN 275-1973)

INS No.	Name of Additive	Maximum Level
Preservati	ives	
200	Sorbic acid	
201	Sodium sorbate	1000 mg/kg
202	Potassium sorbate	singly or in combination as sorbic acid
203	Calcium sorbate	
234	Nisin	12.5 mg/kg
280	Propionic acid	
281	Sodium propionate	Limited by GMP
282	Calcium propionate	
283	Potassium propionate	

INS No.	Name of Additive	Maximum Level
Acidity Re	gulators	<u> </u>
170(i)	Calcium carbonate	Limited by GMP
261(i)	Potassium acetate	Limited by GMP
261(ii)	Potassium diacetate	Limited by GMP
262(i)	Sodium acetate	Limited by GMP
263	Calcium acetate	Limited by GMP
325	Sodium lactate	Limited by GMP
326	Potassium lactate	Limited by GMP
327	Calcium lactate	Limited by GMP
350(i)	Sodium hydrogen <u>DL</u> -malate	Limited by GMP
350(ii)	Sodium DL-malate	Limited by GMP
351(i)	Potassium hydrogen malate	Limited by GMP
351(ii)	Potassium malate	Limited by GMP
352(ii)	Calcium malate (D, L-)	Limited by GMP
500(i)	Sodium carbonate	Limited by GMP
500(ii)	Sodium hydrogen carbonate	Limited by GMP
500(iii)	Sodium sesquicarbonate	Limited by GMP
501(i)	Potassium carbonate	Limited by GMP
501(ii)	Potassium hydrogen carbonate	Limited by GMP
504(i)	Magnesium carbonate	Limited by GMP
504(ii)	Magnesium hydroxidegen carbonate	Limited by GMP
575	Glucono-delta-lactone	Limited by GMP
577	Potassium gluconate	Limited by GMP
578	Calcium gluconate	Limited by GMP
Acids		,
260	Acetic acid	Limited by GMP
270	Lactic acid (L-, D-, and DL-)	Limited by GMP
296	Malic acid (DL-)	Limited by GMP
330	Citric acid	Limited by GMP
338	OrthopPhosphoric acid	880 mg/kg as phosphorus
507	Hydrochloric acid	Limited by GMP
331(i)	Sodium dihydrogen citrate	Limited by GMP
332(i)	Potassium dihydrogen citrate	Limited by GMP
333	Calcium citrates	Limited by GMP
334	Tartaric acid (L(+)-)	Zimiou oy civii
335(i)	Monosodium tartrate	1500 //
335(ii)	DisSodium L(+)-tartrate	1500 mg/kg singly or in combination
336(i)	Monopotassium tartrate	as tartaric acid
336 (ii)	Dipotassium tartrate	as tartaire acid
337	Potassium sodium <u>L(+)-</u> tartrate	
23,	Stabilizers	
339(i)	MenesSodium dihydrogen Orthophosphate	
339(ii)	Disodium hydrogen Orthophosphate	
339(iii)	Trisodium Orthophosphate Trisodium Orthophosphate	
340(i)	MonopPotassium dihydrogen Orthophosphate	
340(ii)	Dipotassium hydrogen Orthophosphate	
340(iii)	Tripotassium Orthophosphate	
341(i)	Monocalcium dihydrogen Orthophosphate	
341(ii)	Dicalcium hydrogen Orthophosphate	
341(iii)	Tricalcium Orthophosphate	_
342(i)	Monoa Ammonium hydrogen orthophosphate	
342(ii)	Diammonium hydrogen orthophosphate	4400 mg/kg
343(ii)	DimMagnesium hydrogen orthophosphate	singly or in combination,
343(iii)	Trimagnesium ortho phosphate	expressed as phosphorus
450(i)	Disodium diphosphate	
450(iii)	Tetrasodium diphosphate	
450(III) 450(v)	Tetrapotassium diphosphate	-
450(vi)	Dicalcium diphosphate	
450(VI) 451(i)	Pentasodium triphosphate	
451(ii)	Pentapotassium triphosphate	-
452(i)	Sodium polyphosphate	-
452(ii)	Potassium polyphosphate	
452(iv)	Calcium polyphosphate	_
	Ammonium polyphosphate	1
452(v) 400	Alginic acid	Limited by GMP

INS No.	Name of Additive	Maximum Level
401	Sodium alginate	Limited by GMP
402	Potassium alginate	Limited by GMP
403	Ammonium alginate	Limited by GMP
404	Calcium alginate	Limited by GMP
405	Propylene glycol alginate	5000 mg/kg
406	Agar	Limited by GMP
407	Carrageenan and its Na, K, NH₄, Ca and Mg salts (includes Furcelleran)	Limited by GMP
407a	Processed Euchema seaweed (PES)	Limited by GMP
410	Carob bean gum	Limited by GMP
412	Guar gum	Limited by GMP
413	Tragacanth gum	Limited by GMP
415	Xanthan gum	Limited by GMP
416	Karaya gum	Limited by GMP
417	Tara gum	Limited by GMP
418	Gellan gum	Limited by GMP
466	Sodium carboxymethyl cellulose	Limited by GMP
Stabilizer	s (Modified Starches)	<u>-</u>
1400	Dextrins, roasted starch	Limited by GMP
1401	Acid-treated starch	Limited by GMP
1402	Alkaline treated starch	Limited by GMP
1403	Bleached starch	Limited by GMP
1404	Oxidized starch	Limited by GMP
1405	Starches, enzyme-treated	Limited by GMP
1410	Monostarch phosphate	Limited by GMP
1412	Distarch phosphate	Limited by GMP
1413	Phosphated distarch phosphate	Limited by GMP
1414	Acetylated distarch phosphate	Limited by GMP
1420	Starch Acetate	Limited by GMP
1422	Acetylated distarch adipate	Limited by GMP
1440	Hydroxypropyl starch	Limited by GMP
1442	Hydroxypropyl distarch phosphate	Limited by GMP
Emulsifie		,
322	Lecithins	Limited by GMP
470(:)	Salt of myristic, palmitic and stearic acids with	1: :: 11 CMD
470(i)	ammonia, calcium, potassium and sodium	Limited by GMP
470(ii)	Salt of oleic acid with calcium, potassium and sodium	Limited by GMP
471	Mono- and di-Glycerides of fatty acids	Limited by GMP
472a	Acetic and fatty acid esters of Glycerol	Limited by GMP
472b	Lactic and fatty acid esters of Glycerol	Limited by GMP
472c	Citric and fatty acid esters of Glycerol	Limited by GMP
472e	Diacetyltartaric and fatty acid esters of glycerol	10000 mg/kg
Antioxida	nts	
300	Ascorbic acid	Limited by GMP
301	Sodium ascorbate	Limited by GMP
302	Calcium ascorbate	Limited by GMP
304	Ascorbyl palmitate	500 mg/kg
305	Ascorbyl stearate	singly or in combination as ascorbyl stearate
307b	Mixed tocopherols concentrate	200 mg/kg
307c	dl-alpha-Tocopherol	singly or in combination
Colours	· ,	
160a(i)	beta-Carotenes (synthetic)	
160a(iii)	beta-Carotenes (Blakeslea triaspora)	35 mg/kg
160e	beta-apo-8-Carotenal	singly or in combination
160f	beta-apo-8'-Carotenoic acid, methyl or ethyl ester	
160a(ii)	betal-Carotenes, (vegetable)	600 mg/kg
171	Titanium dioxide	Limited by GMP
160b(ii)	Annatto extracts, norbixin based	25 mg/kg
Foaming A		<i>5 0</i>
290	Carbon dioxide	Limited by GMP
941	Nitrogen	Limited by GMP
		ý

STANDARD FOR CAMEMBERT (CODEX STAN 276-1973)

INS No.	Name of Additive	Maximum Level
Colours		
160a(i)	beta- <u>C</u> arotene <u>s</u> , (synthetic)	
160a(iii)	beta- <u>C</u> arotene <u>s</u> (Blakeslea triaspora)	35 mg/kg
160e	beta-apo-8'-Carotenal	Singly or in combination
160f	beta-apo-8'-Carotenoic acid, methyl or ethyl ester	
160a(ii)	beta-Carotenes, (vegetable)	600 mg/kg
160b(ii)	Annatto extracts, norbixin based	25 mg/kg
Acidity Regulators		
575	Glucono delta-lactone	Limited by GMP

STANDARD FOR BRIE (CODEX STAN 277-1973)

INS No.	Name of Additive	Maximum Level
Colours		
160a(i)	beta-Carotenes, (synthetic)	2.5
160a(iii)	beta-Carotenes (Blakeslea triaspora)	35 mg/kg
160e	<i>beta-</i> apo- <u>8'</u> -Carotenal	Singly or in combination
160f	beta-apo-8'-Carotenoic acid, methyl-or ethyl ester	
160a(ii)	beta-Carotenes, (vegetable)	600 mg/kg
160b(ii)	Annatto extracts, norbixin based	25 mg/kg
Acidity Regulators		
575	Glucono delta-lactone	Limited by GMP

STANDARD FOR EVAPORATED MILKS (CODEX STAN 281-1971)

INS No.	Name	Maximum Level	
Firming a	gents		
508	Potassium chloride	2 g/kg singly or 3 g/kg in combination,	
509	Calcium chloride	expressed as anhydrous substances	
Stabilizers	1		
331	Sodium citrates	2 g/kg singly or 3 g/kg in combination,	
332	Potassium citrates	expressed as anhydrous substances	
333	Calcium citrates		
Acidity Re	egulators		
170	Calcium carbonates		
339	Sodium phosphates		
340	Potassium phosphates		
341	Calcium phosphates	2 g/kg singly or 3 g/kg in combination,	
450	Diphosphates	expressed as anhydrous substances	
451	Triphosphates	1 7	
452	Polyphosphates		
500	Sodium carbonates		
501	Potassium carbonates		
Thickener			
407	Carrageenan	150 mg/kg	
Emulsifier	Emulsifier		
322	Lecithins	Limited by GMP	

STANDARD FOR SWEETENED CONDENSED MILKS (CODEX STAN 282-1971)

INS No.	Name	Maximum Level	
Firming a	Firming agents		
508	Potassium chloride	2 g/kg singly or 3 g/kg in combination,	
509	Calcium chloride	expressed as anhydrous substances	
Stabilizers	5		
331	Sodium citrates	2 g/kg singly or 3 g/kg in combination,	
332	Potassium citrates	expressed as anhydrous substances	
333	Calcium citrates	1 ,	
Acidity Re	egulators		
170	Calcium carbonates	2 g/kg singly or 3 g/kg in combination,	
339	Sodium phosphates	expressed as anhydrous substances	
340	Potassium phosphates		
341	Calcium phosphates		
450	Diphosphates		
451	Triphosphates		

452	Polyphosphates	
500	Sodium carbonates	
501	Potassium carbonates	
Thickener		
407	Carrageenan	150 mg/kg
Emulsifier		
322	Lecithins	Limited by GMP

STANDARD FOR CHEESE (CODEX STAN 283-1978)

INS No.	Name		Maximum Level
Colours			
100	Curcumins (1	for edible cheese rind)	Limited by GMP
101	Riboflavins	,	Limited by GMP
120	Carmines (1	for red marbled cheeses only)	Limited by GMP
140	Chlorophylls (1	for green marbled cheeses only)	Limited by GMP
141	Chlorophylls, copper complexes		15 mg/kg
160a(i)	beta-Carotenes, (synthetic)		25 mg/kg
160a(ii)	Carotenes, beta- (natural extracts) (vegetable)		600 mg/kg
160b(ii)	Annatto extracts, norbixin based		50 mg/kg
160c	Paprika oleoresin s		Limited by GMP
160e	beta-apo-8'-Carotenal		35 mg/kg
160f	beta-apo-8'-Carotenoic acid, methyl or ethyl ester		35 mg/kg
162	Beet red		Limited by GMP
171	Titanium dioxide		Limited by GMP
Acidity re			Emilied by Givi
170	Calcium carbonates		
504	Magnesium carbonates		Limited by GMP
575	Glucono delta-lactone		
Preservati			
200	Sorbic acid		
201	Sodium sorbate		3000 mg/kg calculated as sorbic acid
202	Potassium sorbate		5000 mg/kg carculated as sorote acid
203	Calcium sorbate		
234	Nisin		12.5 mg/kg
239	Hexamethylene tetramine (I	Provolone only)	25 mg/kg, expressed as formaldehyde
251	Sodium nitrate		50 mg/kg, expressed as NaNO ₃
252	Potassium nitrate		30 mg/kg, expressed as NaNO ₃
280	Propionic acid		
281	Sodium propionate		3000 mg/kg, calculated as propionic acid
282	Calcium propionate		
1105	Lysozyme		Limited by GMP
For surface	e/rind treatment only:		
200	Sorbic acid		1 g/kg singly or in combination, calculated as
202	Potassium sorbate		sorbic acid
203	Calcium sorbate		
235	Pimaricin (natamycin) Natamycin (Pimaricin)		2 mg/dm ² of surface. Not present in a depth of 5 mm
Miscellane	eous additive		1
508	Potassium chloride		Limited by GMP
	shredded or grated cheese		J -

Sliced, cut, shredded or grated cheese

INS No.	Name	Maximum Level
Anti-caki	ng agents	
460	Celluloses	Limited by GMP
551	Silicon dioxide, amorphous	
552	Calcium silicate	
553	Magnesium silicates	
554	Sodium aluminosilicate	10 g/kg singly or in combination.
555	Potassium aluminosilicate	Silicates calculated as silicon dioxide
333	<u>aluminium silicate</u>	
556	Calcium aluminium silicate	
559	Aluminium silicate	
560	Potassium silicate	
Preservat	ives	
200	Sorbic acid	1 g/kg singly or in combination, calculated as

INS No.	Name	Maximum Level
202	Potassium sorbate	sorbic acid
203	Calcium sorbate	

$GENERAL\ STANDARD\ FOR\ NAMED\ VARIETY\ PROCESS(ED)\ CHEESE\ AND\ SPREADABLE\ PROCESS(ED)\ CHEESE\ (CODEX\ STAN\ 285-1978)$

	INS No.		Maximum level in the final product
3.1Emuls			
3.1Emuls	452(i), 452(ii), 452(ii), 452(iv), 451(ii), 451(ii) 331, 332, 330, 338, 500(ii), 170(i)	Sodium polyphosphate, potassium polyphosphate and, calcium polyphosphate, Sodium tripolyphosphate, potassium tripolyphosphate salts of the mone, di and polyphosphoric acids Sodium citrates, potassium citrates and calcium citrates salts of eitrie acid Citric acid and/or phosphoric acid with sodium hydrogen carbonate and/or calcium carbonate	40 g/kg, singly or in combination, calculated as anhydrous substances, except that added phosphorus compounds should not exceed 9 g/kg calculated as phosphorus
3.2	270(2)	Acidifiers / pH controlling agents	
	330	Citric acid	
	338	Phosphoric acid	
	270	Lactic acid	
	500(ii),	Sodium hydrogen carbonate and/or calcium	
	170(i)	carbonate	
3.3 Colours			
	160b(i)	Annatto extracts, bixin based	60 mg/kg
	160b(ii)	Annatto extracts, norbixin based	25 mg/kg
	160a(ii)	beta-carotene (vegetable)	600 mg/kg
	140, 141(i) 101	Chlorophylls, Chlorophylls, copper complexes including copper chlorophyll Riboflavins	Limited by GMP
	160c	Oleoresin of pPaprika oleoresin	
	100(i)	Curcumin	
3.4 Preserva			
	200, 201, 202, 280, 281, 282	Either sorbic acid, and its sodium sorbate and potassium sorbate, or propionic acid, and sodium propionate and calcium propionatesalts	3 g/kg singly or in combination expressed as the acids
	<u>234</u>	Nisin	12.5 mg of pure nisin per kg

$GENERAL\ STANDARD\ FOR\ PROCESS(ED)\ CHEESE\ AND\ SPREADABLE\ PROCESS(ED)\ CHEESE\ (CODEX\ STAN\ 286-1978)$

	INS No.		Maximum level in the final product
3.1 Emul	sifiers		-
	452(i), 452(ii), 452(iv), 451(i), 451(ii)	Sodium polyphosphate, potassium calcium polyphosphate and calcium polyphosphate, salts of the mono, diam polyphosphorie acids	
	331, 332, 333	Sodium <u>citrates</u> , potassium <u>citrates</u> and calcium <u>citrates</u> salts of citric acid Citric acid and/or phosphoric acid with	40 g/kg, singly or in combination, calculated as anhydrous substances, except that added phosphorus compounds should not exceed 9 g/kg calculated as
	330, 338, 500(ii), 170(i)	sodium hydrogen carbonate and/or calcium carbonate	phosphorus
3.2 Acidit	fiers / pH contr	olling agents	
	330	Citric acid	
	<u>338</u>	Phosphoric acid	
	<u>270</u>	Lactic acid	
	500(ii), 170(i)	Sodium hydrogen carbonate and/or calcium carbonate	

3.3 Colour	rs		
	160b(i)	Annatto extracts, bixin based	60 mg/kg
	160b(ii)	Annatto extracts, norbixin based	25 mg/kg
	160a(ii)	beta-carotene (vegetable)	600 mg/kg
	140, 141(i)	Chlorophylls, Chlorophylls, copper	
	140, 141(1)	complexes including copper chlorophyll	11 11 CM
	<u>101</u>	Riboflavin <u>s</u>	Limited by GMP
	<u>160c</u>	Oleoresin of pPaprika oleoresin	
	<u>100(i)</u>	Curcumin	
3.4 Preser	vatives		
	200, 201,	Either sorbic acid, and its sodium sorbate	
	200, 201, 202, 280,	and potassium sorbate , or propionic acid,	3 g/kg singly or in combination expressed as the acids
	<u>281, 282</u>	and sodium propionate and calcium	5 g kg shighy of in combination expressed as the delas
	<u> 201, 202</u>	<u>propionate</u> salts	
	234	Nisin	12.5 mg of pure nisin per kg

$GENERAL\ STANDARD\ FOR\ PROCESS(ED)\ CHEESE\ PREPARATIONS\ (PROCESS(ED)\ CHEESE\ FOOD\ AND\ PROCESS(ED)\ CHEESE\ SPREAD)\ (CODEX\ STAN\ 287-1978)$

	TNIC NI		N/
215 1	INS No.		Maximum level in the final product
3.1 Emul		G. E	
	452(i),	Sodium polyphosphate , potassium	
	452(ii),	polyphosphate and , calcium	
	452(iv),	polyphosphate, Sodium tripolyphosphate,	
	451(i),	potassium tripolyphosphate salts of the	
	<u>451(ii)</u>	mono-, di- and polyphosphoric acids	
	331, 332,	Sodium citrates, potassium citrates and	40 -/l
	333	calcium citrates salts of citric acid	40 g/kg, singly or in combination, calculated as anhydrous substances, except that added phosphorus
	<u>330, 338,</u>	Citric acid and/or phosphoric acid with	compounds should not exceed 9 g/kg calculated as
	500(ii),	sodium hydrogen carbonate and/or calcium	phosphorus
22 1 17	170(i)	carbonate	
3.2 Acidit		trolling agents	
	330	Citric acid	
	<u>338</u>	Phosphoric acid	
	<u>270</u>	Lactic acid	
	<u>500(ii),</u>	Sodium hydrogen carbonate and/or calcium	
	<u>170(i)</u>	carbonate	
3.3 Colou			
	160b(i)	Annatto extracts, bixin based	60 mg/kg
	160b(ii)	Annatto extracts, norbixin based	80 mg/kg
	160a(ii)	beta-carotene (vegetable)	600 mg/kg
	140,	Chlorophylls, copper	
	141(i)	complexes including copper chlorophyll	
	101	Riboflavin <u>s</u>	Limited by GMP
	160c	Oleoresin of pPaprika oleoresin	
	100(i)	Curcumin	
3.4 Presen	rvatives		
	200 201	Either sorbic acid, and its sodium sorbate	
	<u>200, 201,</u>	and potassium sorbate, or propionic acid,	2 -//
	<u>202, 280,</u>	and sodium propionate and calcium	3 g/kg singly or in combination expressed as the acids
	<u>281, 282</u>	propionate salts	
	<u>234</u>	Nisin	12.5 mg of pure nisin per kg
3.5 Taste	intensifiers		
	<u>621</u>	MonoSodium L-glutamate	Limited by GMP
3.6 Other	Additives		
	414	Arabie Ggum arabic (Acacia gum)	8 g/kg singly or in combination
	<u>410</u>	Locust (eCarob) bean gum	
	416	Karaya gum	*
	412	Guar gum	
	406	Agar -agar	
	407	Carrageenan	
	415	Xanthan gum	*
		Sodium carboxymethylcellulose (cellulose	
	<u>466</u>	gum)	
	404 402	Sodium <u>alginate</u> , potassium <u>alginate</u> ,	
	<u>401, 402,</u>	calcium alginate and ammonium	
	<u>404, 403</u>	alginatesalts of alginic acid	
1	1		

<u>405</u>	Propylene glycol <u>alginate</u> ester of alginie
440	Pectins
428	Gelatine

^{*} Endorsement postponed

STANDARD FOR CREAM AND PREPARED CREAMS (CODEX STAN 288-1976)

idity Regulators Lactic acid (L, D, and DL-)	
Sodium lactate GMP Calcium lactate GMP Calcium lactate GMP Calcium lactate GMP Calcium carbonate GMP Calcium carbonate GMP Calcium carbonate GMP Citric acid GMP Calcium carbonate GMP Calcium carbonate GMP Calcium carbonate GMP Citi) Sodium sesquicarbonate GMP Citi) Potassium carbonate GMP Citi) Potassium carbonate GMP Citi) Potassium carbonate GMP Citi) Potassium dihydrogen carbonate GMP Citi) Calcium citrate GMP Citi) Trisodium citrate GMP Citi) Disodium dihydrogen citrate GMP Calcium sulfate sulphate GMP Calcium sulfate sulphate GMP Calcium cithe phosphate Citi) Disodium orthe dihydrogen phosphate Citii) Trisodium orthe phosphate	
Potassium lactate Calcium lactate Calcium lactate Calcium lactate Calcium citrates Calcium citrates Calcium carbonate Ciii) Sodium sesquicarbonate Ciii) Potassium carbonate Ciii) Potassium carbonate Ciii) Calcium carbonate Ciii) Calcium carbonate Ciii) Calcium carbonate Ciii) Calcium carbonate Ciiii) Calcium carbonate Ciiii) Calcium citrate Ciiii) Calcium citrate Ciiii) Calcium citrate Ciiii) Calcium sulfate sulphate Ciiii) Calcium sulfate sulphate Ciiii) Calcium ortho dihydrogen phosphate Ciiii) Calcium ortho hydrogen phosphate Ciiiii) Trisodium ortho hydrogen phosphate Ciiiii) Trisodium ortho hydrogen phosphate Ciiiiii Trisodium ortho hydrogen phosphate Ciiiiiiii Trisodium ortho hydrogen phosphate	
Calcium lactate Citric acid Citric acid Calcium citrates Calcium citrates Calcium carbonate Ciii Code Calcium carbonate Ciiii Code Calcium sesquicarbonate Ciiii Code Calcium carbonate Ciiiii Code Calcium carbonate Ciiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	
Citric acid GMP Calcium citrates GMP O(i) Sodium carbonate GMP O(ii) Sodium hydrogen carbonate GMP O(iii) Sodium sesquicarbonate GMP O(iii) Potassium carbonate GMP O(iii) Potassium hydrogen carbonate GMP O(iii) Potassium hydrogen carbonate GMP O(iii) Potassium hydrogen carbonate GMP O(iii) Calcium carbonate GMP O(ii) Calcium carbonate GMP O(ii) Sodium dihydrogen citrate GMP O(ii) Trisodium citrate GMP O(ii) Tripotassium dihydrogen citrate GMP O(ii) Tripotassium citrate GMP O(ii) Mono Sodium ortho dihydrogen phosphate O(iii) Disodium ortho hydrogen phosphate O(iii) Trisodium ortho hydrogen phosphate O(iii) Trisodium ortho hydrogen ortho phosphate	
Calcium citrates GMP O(i) Sodium carbonate GMP O(ii) Sodium hydrogen carbonate GMP O(iii) Sodium sesquicarbonate GMP O(iii) Potassium carbonate GMP O(iii) Potassium hydrogen carbonate O(ii) Potassium hydrogen carbonate O(ii) Calcium carbonate O(ii) Calcium carbonate O(ii) Sodium dihydrogen citrate O(ii) Trisodium citrate O(ii) Potassium dihydrogen citrate O(ii) Tripotassium citrate O(ii) Tripotassium citrate O(ii) Tripotassium citrate O(ii) Tripotassium citrate O(iii) Trisodium ortho dihydrogen phosphate O(iii) Disodium ortho hydrogen phosphate O(iii) Trisodium ortho hydrogen ortho phosphate	
O(i) Sodium carbonate GMP O(ii) Sodium hydrogen carbonate GMP O(iii) Sodium sesquicarbonate GMP O(iii) Potassium carbonate GMP O(iii) Potassium hydrogen carbonate GMP O(iii) Potassium hydrogen carbonate GMP O(i) Calcium carbonate GMP O(i) Sodium dihydrogen citrate GMP O(i) Trisodium citrate GMP O(i) Potassium dihydrogen citrate GMP O(i) Potassium dihydrogen citrate GMP O(i) Potassium dihydrogen citrate GMP O(i) Tripotassium citrate GMP O(i) Tripotassium citrate GMP O(ii) Mono Sodium ortho dihydrogen phosphate O(iii) Disodium ortho hydrogen phosphate O(iii) Trisodium ortho hydrogen phosphate O(iii) Trisodium ortho hydrogen ortho phosphate	
Sodium hydrogen carbonate GMP	
O(iii) Sodium sesquicarbonate GMP O(i) Potassium carbonate GMP O(ii) Potassium hydrogen carbonate GMP O(ii) Potassium hydrogen carbonate GMP O(i) Calcium carbonate GMP O(i) Sodium dihydrogen citrate GMP O(ii) Trisodium citrate GMP O(i) Potassium dihydrogen citrate GMP O(ii) Tripotassium citrate GMP O(ii) Mono Sodium ortho dihydrogen phosphate O(iii) Disodium ortho hydrogen phosphate O(iii) Trisodium ortho hydrogen phosphate O(iii) Trisodium ortho hydrogen ortho phosphate	
(ii) Potassium carbonate GMP (iii) Potassium hydrogen carbonate GMP (bilizers and Thickeners (bil) Calcium carbonate GMP (ii) Sodium dihydrogen citrate GMP (iii) Trisodium citrate GMP (iii) Potassium dihydrogen citrate GMP (iii) Tripotassium citrate GMP (iii) Tripotassium citrate GMP (iii) Tripotassium citrate GMP (b) Calcium sulfate sulphate GMP (c) Calcium sulfate sulphate GMP (c) Mono Sodium ortho dihydrogen phosphate (c) Disodium ortho hydrogen phosphate (c) Trisodium ortho hydrogen phosphate (c) Mono Potassium dihydrogen ortho phosphate	
Citi Potassium hydrogen carbonate GMP	
Disodium ertho phosphate Disodium ertho phos	
O(i) Calcium carbonate GMP O(i) Sodium dihydrogen citrate GMP O(ii) Trisodium citrate GMP O(i) Potassium dihydrogen citrate GMP O(ii) Tripotassium citrate GMP O(i) Tripotassium citrate GMP O(i) Mone Sodium ortho dihydrogen phosphate O(ii) Disodium ortho hydrogen phosphate O(iii) Trisodium ortho phosphate O(iii) Trisodium ortho phosphate O(iii) Mone Potassium dihydrogen ortho phosphate	
(i) Sodium dihydrogen citrate GMP (iii) Trisodium citrate GMP (i) Potassium dihydrogen citrate GMP (ii) Tripotassium citrate GMP (ii) Tripotassium citrate GMP (ii) Calcium sulfate sulphate GMP (ii) Mono Sodium ortho dihydrogen phosphate (iii) Disodium ortho hydrogen phosphate (iii) Trisodium ortho phosphate (iii) Trisodium ortho phosphate (iii) Mono Potassium dihydrogen ortho phosphate	
Ciii	
Ciii	
2(i) Potassium dihydrogen citrate GMP 2(ii) Tripotassium citrate GMP 3 Calcium sulfate sulphate GMP 4 (ii) Mono Sodium ortho dihydrogen phosphate 5 (iii) Disodium ortho hydrogen phosphate 6 (iii) Trisodium ortho phosphate 6 (iii) Trisodium ortho phosphate 6 (iii) Mono Potassium dihydrogen ortho phosphate	
2(ii) Tripotassium citrate GMP Calcium sulfate sulphate O(i) Mono Sodium ortho dihydrogen phosphate O(ii) Disodium ortho hydrogen phosphate O(iii) Trisodium ortho phosphate O(ii) Mono Potassium dihydrogen ortho phosphate	
Calcium sulfate sulphate O(i) Mono Sodium ortho dihydrogen phosphate O(ii) Disodium ortho hydrogen phosphate O(iii) Trisodium ortho phosphate O(i) Mono Potassium dihydrogen ortho phosphate	
Mone Sodium ortho dihydrogen phosphate Disodium ortho hydrogen phosphate Diii) Trisodium ortho phosphate Diii) Mone Potassium dihydrogen ortho phosphate	
D(ii) Disodium ortho hydrogen phosphate D(iii) Trisodium ortho phosphate D(i) Mono Potassium dihydrogen ortho phosphate	
D(iii) Trisodium ortho phosphate D(i) Mono Potassium dihydrogen ortho phosphate	
(i) Mone Potassium dihydrogen orthe phosphate	
icii) — i Ednorassium arma nvarogen prospnate	
(iii) Tripotassium erthe phosphate	
(i) Monocalcium erthe divdrogen phosphate	
(ii) Dicalcium ortho hydrogen phosphate	
(iii) Tricalcium erthe phosphate	
(i) Disodium diphosphate	
(ii) Trisodium diphosphate 1100 mg/kg expi	raccad
(iii) Tetrasodium diphosphate as phosphore	
(iii) Tetrasodidiii diphosphate as phosphore (iv) Tetrapotassium diphosphate	us
(vi) Dicalcium diphosphate	
O(vii) Calcium dihydrogen diphosphate	
(i) Pentasodium triphosphate	
V 1 71 1	
Potassium polyphosphate	
2(iii) Sodium calcium polyphosphate	
2(iv) Calcium polyphosphate	
2(v) Ammonium polyphosphate	
Alginic acid GMP	
Sodium alginate GMP	
Potassium alginate GMP	
Ammonium alginate GMP	
Calcium alginate GMP	
Propylene glycol alginate 5000 mg/kg	g
GMP GMP	
Carrageenan and its Na, K, NH₄ salts GMP	
7a Processed eucheuma seaweed GMP	
Carob bean gum GMP	
2. Guar gum GMP	
Gum arabic GMP	
Xanthan gum GMP	
Gellan gum GMP	
Pectins GMP	
O(i) Microcrystalline cellulose GMP	

INS No.	Name of Additive	Maximum Level
460(ii)	Powdered cellulose	GMP
461	Methyl cellulose	GMP
463	Hydroxypropyl cellulose	GMP
464	Hydroxypropyl methyl cellulose	GMP
465	Methyl ethyl cellulose	GMP
466	Sodium carboxymethyl cellulose	GMP
508	Potassium chloride	GMP
509	Calcium chloride	GMP
1410	Monostarch phosphate	GMP
1412	Distarch phosphate esterified with sodium trimetaphosphate: esterified with phosphorus oxychloride	GMP
1413	Phosphated distarch phosphate	GMP
1414	Acetylated distarch phosphate	GMP
1420	Starch acetate	GMP
1422	Acetylated distarch adipate	GMP
1440	Hydroxypropyl starch	GMP
1442	Hydroxypropyl distarch phosphate	GMP
1450	Starch sodium octenyl succinate	GMP
Emulsifiers		5
322 (i)	Lecithin	GMP
432	Polyoxyethylene (20) sorbitan monolaurate	-
433	Polyoxyethylene (20) sorbitan monooleate	
434	Polyoxyethylene (20) sorbitan monopalmitate	1000 mg/kg
435	Polyoxyethylene (20) sorbitan monostearate	5 5
436	Polyoxyethylene (20) sorbitan tristearate	
471	Mono- and diglycerides of fatty acids	GMP
472a	Acetic and fatty acid esters of glycerol	GMP
472b	Lactic and fatty acid esters of glycerol	GMP
472c	Citric and fatty acid esters of glycerol	GMP
473	Sucrose esters of fatty acids	5000 mg/kg
475	Polyglycerol esters of fatty acids	6000 mg/kg
491	Sorbitan monostearate	
492	Sorbitan tristearate	
493	Sorbitan monolaurate	5000 mg/kg
494	Sorbitan monooleate	5 5
495	Sorbitan monopalmitate	
Packaging		
290	Carbon dioxide	GMP
941	Nitrogen	GMP
Propellant 1	For use only in whipped creams (including creams packed under pressure)	
942	Nitrous oxide	GMP

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INS No	Name of food additive	Maximum level
Acidity re	gulators	
261(i)	Potassium acetate	
262(i)	Sodium acetate	
263	Calcium acetate	
325	Sodium lactate	Limited by GMP
326	Potassium lactate	
327	Calcium lactate	
328	Ammonium lactate	
329	Magnesium lactate (DL-)	
452	Polyphosphates	5 g/kg singly or in combination expressed as P ₂ O ₅ *
Neutraliz	ing agents	
331	Sodium citrates	
332	Potassium citrates	-1.1.44 - 21.7
333	Calcium citrates	Limited by GMP
345	Magnesium citrate	
380	Tria ← mmonium citrates	
339	Sodium phosphates	10 g/kg singly or in combination expressed as P ₂ O ₅ *
340	Potassium phosphates	
341	Calcium phosphates	
342	Ammonium phosphates	

INS No	Name of food additive	Maximum level	
343	Magnesium phosphates		
170	Calcium carbonates		
500	Sodium carbonates		
501	Potassium carbonates		
503	Ammonium carbonates		
504	Magnesium carbonates	Limited by GMP	
524	Sodium hydroxide		
525	Potassium hydroxide		
526	Calcium hydroxide		
527	Ammonium hydroxide		
528	Magnesium hydroxide		
Emulsifie	rs	<u> </u>	
322	Lecithins	Limited by CMD	
471	Mono- and di-glycerides of fatty acids	Limited by GMP	
Bulking a	gents	·	
325	Sodium lactate	Limited by GMP	
Anti-cakii	ng agents	•	
170(i)	Calcium carbonate		
341(iii)	Tricalcium ortho phosphate		
343(iii)	Trimagnesium ortho phosphate		
460	Cellulose <u>s</u>		
504(i)	Magnesium carbonate		
530	Magnesium oxide		
551	Silicon dioxide, amorphous	10 g/kg singly or in combination *	
552	Calcium silicate		
553	Magnesium silicates		
554	Sodium aluminosilicate		
556	Calcium aluminium silicate		
559	Aluminium silicate		
1442	Hydroxypropyl distach phosphate		

^{*} Total amount of P₂O₅ shall not exceed 10 g/kg.