CODEX ALIMENTARIUS COMMISSION



Food and Agriculture Organization of the United Nations



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Agenda Item 5c

CX/FA 23/53/9 January 2023

JOINT FAO/WHO FOOD STANDARDS PROGRAMME

CODEX COMMITTEE ON FOOD ADDITIVES

Fifty-second Session

GENERAL STANDARD FOR FOOD ADDITIVES (GSFA): PROPOSALS FOR NEW AND/OR REVISION OF FOOD ADDITIVE PROVISIONS (REPLIES TO CL 2019/55-FA)

(Australia, Colombia, Egypt, New Zealand, Peru, Senegal, FoodDrinkEurope, FIVS, IADSA, IFAC and NATCOL)

Australia

In response to CL 2021/55-FA, Australia would like to submit a request for an amendment to the current provisions in the GSFA for Lauric arginate ethyl ester (LAEE) (INS 243). This would apply in particular to food categories, where footnotes have been introduced (or in once case retained) during the alignment exercise which restrict the use of LAEE in food categories but where the use of other preservatives is considered acceptable. We consider the footnotes restricting the use of LAEE that were introduced or retained during the alignment working group's review should now be revisited following the review of the standards and acceptance that the use of preservatives is justified in foods conforming to the standards.

The specific requests concern the continued presence of following footnotes, associated with the use of LAEE in three food categories, which appears to be a consequence of the work of the e-WG on alignment.

Food Category 01.6.1 "Unripened Cheese, including fresh cheese"

Footnote XS221 "Excluding products conforming to the Group Standard for *Unripened Cheese including Fresh Cheese* (CXS 221-2001)"

Footnote XS273 "Excluding products conforming to the Standard for Cottage Cheese (CXS 273-1968)"

Footnote XS275 "Excluding products conforming to the Standard for Cream Cheese (CXS 275-1973)"

Food Category 01.6.2.1 "Ripened Cheese, includes rind"

Footnote XS278 "Excluding products conforming to the *Standard for Extra Hard Grating cheese* (CXS 278-1978)"

Footnote XS283 "Excluding products conforming to the General Standard for Cheese (CXS 283-1978)"

Food Category 02.2.2 "Fat spreads, dairy fat spreads and blended spreads"

Footnote 215 "Excluding products conforming to the *Standard for Fat Spreads and Blended Spreads* (CODEX STAN 256-2007)"

Full details explaining why we consider the association of these footnotes with LAEE provisions requires amendment are included in the attached draft proposed responses to CL 2021/55-FA.

I. Food Category 01.6.1 "Unripened Cheese, including fresh cheese"

THE PROPOSAL IS SUBMITTED BY:	Australia		
IDENTITY OF THE FOOD ADDITIVE:			
Name of the Additive	Lauric arginate ethyl ester		
As listed in Class Names and the International Numbering System (INS) - CAC/GL 36-1989			
INS Number	243		
Functional Class	Preservative		

As listed in Class Nan Numbering System (II	nes and VS) - CA	the International C/GL 36-1989				
PROPOSED USE(S) OF THE FOOD		The proposal for:				
ADDITIVE ('):		1	\Box a new provision; or			
times as needed.	be copie	d as many	⊠ revising an existing prov GSFA; or	ision in Tables 1 and 2 of the		
			revising an existing prov (skip to "Is the proposal covered by the commodity s	□ revising an existing provision in Table 3 of the GSFA (skip to "Is the proposal intended to revise products covered by the commodity standard").		
Food Category No. (²)	Food (²)	Category Name	Maximum Use Level (³)	Comments (⁴)		
01.6.1	Unripe	ned Cheese,	200 mg/kg	Note XS221		
	includir	ng fresh cheese		Note XS273		
				Note XS275		
				Remove these exclusions from the lauric arginate ethyl ester provisions		
Is the proposal relate	ed to a l	C with correspo	nding commodity standard	s?		
(if yes indicate the rele	evant FC	;)				
Yes. FC 01.6.1						
Group Standard for Ur	nripenec	I Cheese including	g Fresh Cheese (CXS 221-20	01)		
Standard for Cottage	Cheese	(CXS 273-1968)				
Standard for Cream C	heese (CXS 275-1973)				
Is the proposal also intended to revise the pro		roducts covered by the con	modity standards?			
(if yes indicate the relevant commodity standard		ls)				
Yes, to revise products covered by the common arginate ethyl ester (INS 243) (LAEE).		odity standards listed above	to <u>re-permit</u> the use of lauric			
EVALUATION BY JECFA:						
Evaluation by JECFA	4		Evaluation date: 2008			
Reference to the JEC	FA evalı	uation (including	Report: TRS 952-JECFA 69	/27		
year and JECFA sess	ion of ev	/aluation; full	Tox Monograph: FAS 60-JE	Tox Monograph: FAS 60-JECFA 69		
specifications monogr	aph).	,	Specifications: FAO JECFA Monographs 7 (2009)			
			ADI 0-4 mg/kg bw for Ethyl-Nα-Lauroyl-L-Arginate			
JUSTIFICATION:						
Justification for use and technological needBased on Section 3.2 of the Preamble of the General Standard for Fo Additives, the main technological need for the use of LAEE in food catego 01.6.1 is 3.2(c) 'To enhance to keeping quality or stability of a food'.			e <i>General Standard for Food</i> use of LAEE in food category y or stability of a food'.			
based on the crite Section 3.2 of the Pre of the General Stand Food Additives (i.e. I advantage, does not p an appreciable healt serves a techno function).	pria in pamble ard for has an present h risk, plogical	Provisions were adopted at Step 8 in 2011 for LAEE (INS 243) in food category 01.6.1 at a level of 200 mg/kg. The provisions were adopted without any footnotes restricting the use of the additive in products falling under this food category. However, following the completion of the latest phase of the realignment exercise undertaken by the CCFA e-WG, the outcome of which was endorsed by CCFA 52 and subsequently adopted by CAC in 2021, three new footnotes have been assigned to the provisions for INS 243 in Food Category 01.6.1 to restrict its use in certain foods conforming with three commodity standards, namely:				

XS221: Excluding products conforming to the *Group Standard* for Unripened Cheese including Fresh Cheese (CXS 221-2001)

XS273: Excluding products conforming to the *Standard for Cottage Cheese* (CXS 273-1968)

XS275: Excluding products conforming to the *Standard for Cream Cheese* (CXS 275-1973)

The current request is to reverse the adoption of these newly introduced footnotes from the provision for INS 243 proposed by the working group on alignment. We do not consider it was intended to further restrict the use of preservatives already listed under FC 01.6.1 given the working group concluded that the use of preservatives used in accordance with Tables 1 and 2 of the *General Standard for Food Additives* (CXS 192-1995) in Food Category 01.6.1 is justified in foods conforming to these Codex Standards. Other preservatives permitted for use in these standardised foods include sorbates, nisin and natamycin. LAEE has been permitted to be used in products under Food Category 01.6.1. at a level of 200 mg/kg for several years and previously footnotes were not assigned to this entry in the GSFA. The use of LAEE provides an effective alternative to the use of other preservatives in products falling under these standards.

Technological effect of Lauric arginate ethyl ester in cheese

LAEE is a preservative that is also used in products that conform to these corresponding standards associated with FC 01.6.1. The technical effect of LAEE in food is to inhibit microbial growth in the food to which it has been added, and it is effective in controlling the growth of potentially pathogenic organisms in products falling under 01.6.1. The active ingredient of LAEE, as a cationic surfactant, has a wide spectrum of activity against bacteria, yeasts and moulds. Specifically, LAEE affects negatively charged compounds such as microbial proteins present in cellular membranes or in enzyme systems.

Unripened cheeses benefit from the addition of preservatives. They spoil more rapidly than aged cheeses, and typical spoilage microorganisms include psychrotrophs, coliforms, fungi and lactic acid bacteria (Ledenbach and Marshall, 2009). Pasteurisation may eliminate many spoilage microorganisms originating from milk production and processing, but post-process contamination of milk and cheese can still occur.

Use of the currently authorised preservatives in cheese has some disadvantages. When used to prevent mould growth on the surface of cheese, sorbates tend to diffuse into the cheese decreasing the surface concentration and thereby decreasing their preservative effect, and also modifying the flavour, appearance and ripening process of the cheese (de Ruig and van den Berg, 1985). In addition, some moulds that grow on cheese are capable of metabolising sorbic acid and sorbate to trans-1,3pentadiene, which causes an off-odour and flavour (Ledenbach and Marshall, 2009; Sensidoni et al., 1994). In addition, the near neutral pH of fresh cheese is not optimal for the antimicrobial activity of sorbates. The use of other preservatives on cheese also have disadvantages, such as natamycin which is a polyene fungicide and is not active against pathogenic bacteria such as L. monocytogenes (EFSA, 2009). Nisin has a narrow spectrum of activity against only gram-positive bacteria and does not inhibit gram-negative bacteria, yeasts or moulds (EFSA, 2006). In addition, some strains of bacteria, including some strains of L. monocytogenes have been shown to develop gradual resistance against nisin (Soni et al., 2010).

The technological advantages of LAEE over other preservatives for use in cheeses (i.e. FC 01.6.1) include the following:

LAEE is effective at low and near-neutral pH. In contrast, some other preservatives are only effective at low pH.

	LAEE is similarly easts and moul antimicrobial effi range of micro-o	ly effective against bacteria (Gram +ve and Gram –ve), ds. Other preservatives must be combined to enhance their cacy because they cannot inhibit the growth of such a wide rganisms by themselves
	The minimum in lower than the I organisms. This than for other for	hibitory concentrations (MICs) of LAEE are considerably MICs of the other preservatives against the same micro- means that the effective application dose is lower for LAEE of preservatives
	On ingestion, La natural constitute effects because decomposed into	AEE can be easily and rapidly metabolised to common, ent metabolic compounds. This implies a lack of adverse it is a unique food preservative that is metabolically constituent products.
	<u>Efficacy</u>	
The efficacy of L been demonstra example, an inte ppm and 100 pp LAE did not cha found that LAEE contamination pr The antimicrobia 50 ppm there is increases signific		AEE as an antimicrobial preservative for use on cheese has ated in studies previously referred to the committee. For ernal study examined effect of LAEE on fresh cheese (50 m) (Internal study VED-EC-22). Treating fresh cheeses with ange their taste and general appearance. The study also reduces the concentration of the standard microbiological resent in the samples (<i>E. coli</i> , Coliform bacteria and yeasts). al activity increases with higher concentrations of LAEE. At a clear reduction effect, while at 100 ppm the reduction cantly.
	International aut	horisation of LAEE
	The use of lauric falling under FC restriction on it commodity stand trade. As such, of the new footnote preservative in th	arginate ethyl ester (LAEE) is permitted for use in products 01.6.1 in a number of countries worldwide, without further is use in products conforming to the relevant Codex dards. These products are also available in international consideration should be given to reverse the introduction of es in the GSFA to reflect the acceptable use of LAEE as a mese products in numerous countries.
Safe use of additive: Dietary	r intake	Table 3 additive:
assessment (as appropriate)		□ Yes
		⊠ No (Please provide information on dietary intake assessment below)
		The use of lauric acid ethyl ester (INS 243) in cheese products that fall under Codex food category 01.6.1, as well as its use in a broad range of other foods, was taken into consideration as part of the JECFA assessment of the safety of the additive in 2009.
Justification that the use does not mislead consumer		When used as a preservative, the use of LAEE would be in the list of ingredients on the label of the products.

REFERENCES

De Ruig, WG and van den Berg G. (1985). Influence of the fungicides sorbate and natamycin in cheese coatings on the quality of the cheese. *Neth. Milk Dairy J.*, 39, 165-172.

EFSA Panel on Food Additives and Nutrient Sources added to Food (ANS); Scientific Opinion on the use of natamycin (E 235) as a food additive. EFSA Journal 2009;7(12):1412 [25 pp.].

EFSA Panel on Food Additives, Flavourings, Processing Aids and Materials in Contact with Food. Scientific Opinion on the use of nisin (E 234) as a food additive. Question number EFSA-Q-2005-031. Adopted on 26 January 2006. The EFSA Journal (2006) 314, 1-16.

Internal study - VED-EC-22. Technical report of Efficacy test. Lauric Arginate as Preservative for Fresh Cheese. Laboratorios Miret S.A. Lamirsa. 22 Febuary 2008.

Ledenbach, LH and Marshall, RT. (2009). Microbiological Spoilage of Dairy Products. In: Compendium of the Microbiological Spoilage of Foods and Beverages. Ed. Sperber, W.H. and Doyle, M.P. Food microbiology and Food Safety. Springer p.41-67

Sensidoni A, Rondinini G, Peressini D, Maifreni M, Bortolomeazzi R. (1994). Presence of an off-flavour associated with the use of sorbates in cheese and margarine. Ital. J. Food Sci. 2: 237-242.

Soni KA, Nannapaneni R, Schilling MW, Jackson V. (2010). Bactericidal activity of lauric arginate in milk and Queso Fresco cheese against Listeria monocytogenes cold growth. J Dairy Sci., Oct;93(10):4518-25.

II. Food Category 01.6.2.1 "Ripened Cheese, includes rind"

THE PROPOSAL IS SUBMITTED BY: Australia			
IDENTITY OF THE FOOD ADDITIVE:			
Name of the Additi	ive	Lauric arginate ethyl ester	
As listed in Class Names and the International Numbering System (INS) - CAC/GL 36-1989			
INS Number		243	
Functional Class		Preservative	
As listed in Class N International Numbe CAC/GL 36-1989	ames and the ering System (INS) -		
PROPOSED USE(S	6) OF THE FOOD	The proposal for:	
ADDITIVE ('):		□ a new provision; or	
The rows below ma times as needed.	y be copied as many	⊠ revising an existing prov GSFA; or	vision in Tables 1 and 2 of the
		□ revising an existing provision in Table 3 of the GSFA (skip to "Is the proposal intended to revise	
		products covered by the commodity standard").	
Food Category No. (²)	Food Category Name (²)	Maximum Use Level (³)	Comments (⁴)
01.6.2.1	Ripened Cheese,	200 mg/kg	Note XS278
	includes rind		Note XS283
			Remove these exclusions from the lauric arginate ethyl ester provisions
Is the proposal rela	ated to a FC with corres	ponding commodity standa	rds?
(if yes indicate the r	elevant FC)		
Yes. FC 01.6.2.1			
Standard for Extra H	Hard Grating cheese (CXS	S 278-1978)	
General Standard for	or Cheese (CXS 283-1978	3)	
Is the proposal als	o intended to revise the	products covered by the co	ommodity standards?
(if yes indicate the relevant commodity standards)			
Yes, to revise the products covered by the commodity standard listed above to <u><i>re-permit</i></u> the use of lauric arginate ethyl ester (INS 243) (LAEE).			e to <u>re-permit</u> the use of lauric
EVALUATION BY JECFA:			
Evaluation by JEC	FA	Evaluation date: 2008	
		Report: TRS 952-JECFA 69/27	

Reference to the JECFA eva	aluation	Tox Monograph: FAS 60-JECFA 69		
(including year and JECFA session of evaluation; full ADI (numerical or "not		Specifications: FAO JECFA Monographs 7 (2009)		
specified"); specifications monograph).		ADI 0-4 mg/kg bw for Ethyl-N α -Lauroyl-L-Arginate		
JUSTIFICATION:				
Justification for use and technological need	Based on Section Additives, the main of 1.6.2.1 is 3.2(c)	on 3.2 of the Preamble of the <i>General Standard for Food</i> ain technological need for the use of LAEE in food category of the enhance to keeping quality or stability of a food'.		
based on the criteria in Section 3.2 of the Preamble of the General Standard for Food	Provisions were adopted at Step 8 in 2011 for LAEE (INS 243) in food category 01.6.2.1 at a level of 200 mg/kg. The provisions were adopted with footnotes that restrict the use of the additive in products conforming to corresponding commodity standards associated with this category.			
Additives (i.e. has an advantage does not	The thirteen foot	notes adopted were as follows:		
present an appreciable health risk, serves a	XS263: Excludir 263-1966)	ng products conforming to the Standard for Cheddar (CXS		
technological function).	XS264: Excludin 1966)	g products conforming to the Standard for Danbo (CXS 264-		
	XS265: Excludin 1966)	g products conforming to the Standard for Edam (CXS 265-		
	XS266: Excludin 1966)	g products conforming to the Standard for Gouda (CXS 266-		
	XS267: Excludin 1966)	g products conforming to the Standard for Havarti (CXS 267-		
	XS268: Excludin 1966)	g products conforming to the Standard for Samsø (CXS 268-		
	XS269: Excludin 269-1967)	g products conforming to the Standard for Emmental (CXS		
	XS270: Excludin 1968)	g products conforming to the Standard for Tilsiter (CXS 270-		
	XS271: Excludin 271-1968)	g products conforming to the <i>Standard for Saint-Paulin</i> (CXS		
	XS272: Excludin 272-1968)	g products conforming to the Standard for Provolone (CXS		
	XS274: Excludir (CXS 274-1969)	ng products conforming to the Standard for Coulommiers		
	XS276: Excludin 276-1973)	g products conforming to the Standard for Camembert (CXS		
	XS277: Excludir 1973)	ng products conforming to the Standard for Brie (CXS 277-		
	CCFA 52 adopte associated with food standards considered justifi remove the follow	ed as new work (at Step 2) a request to remove footnotes the use of LAEE in products conforming to a number of the listed above and for which the use of preservatives is ied. In all the Committee agreed to take forward new work to wing ten footnotes:		
	XS263: Excludir 263-1966)	ng products conforming to the Standard for Cheddar (CXS		
	XS264: Excludin 1966)	g products conforming to the Standard for Danbo (CXS 264-		
	XS265: Excludin 1966)	g products conforming to the Standard for Edam (CXS 265-		

	XS266: Excluding products conforming to the <i>Standard for Gouda</i> (CXS 266-1966)
	XS267: Excluding products conforming to the <i>Standard for Havarti</i> (CXS 267-1966)
	XS268: Excluding products conforming to the <i>Standard for Samsø</i> (CXS 268-1966)
	XS269: Excluding products conforming to the <i>Standard for Emmental</i> (CXS 269-1967)
	XS270: Excluding products conforming to the <i>Standard for Tilsiter</i> (CXS 270-1968)
	XS271: Excluding products conforming to the <i>Standard for Saint-Paulin</i> (CXS 271-1968)
	XS272: Excluding products conforming to the <i>Standard for Provolone</i> (CXS 272-1968)
H t a a	However, alongside agreeing to take forward work removing these footnotes, the outcome of a separate review undertaken by electronic working group on alignment (CX/FA 21/52/6) was also agreed by CCFA 52. This work on alignment resulted in the introduction of two new footnotes associated with the provisions for INS243 in FC 01.6.2.1, namely:
2	XS278: Excluding products conforming to the <i>Standard for Extra Hard</i> Grating cheese (CXS 278-1978)
	XS283: Excluding products conforming to the General Standard for Cheese (CXS 283-1978)
	However, in the same review, the working group on alignment also concluded that preservatives used in accordance with Tables 1 and 2 of the <i>General Standard for Food Additives</i> (CXS 192-1995) in food category 01.6.2.1 (Ripened cheese, includes rind) are acceptable for use in foods conforming to both of these standards. The use of LAEE provides an effective alternative to the use of other preservatives in products falling under these standards.
	The acceptability of the use of LAEE in a range of cheeses conforming to a number of Codex Standards is currently being recognised formally through the new work to remove footnotes in the GSFA that limit these uses. As such it perhaps seems the introduction of the new footnotes suggested by the eWG on alignment is an unintended consequence of their review. Indeed the new notes will introduce quite considerable new restrictions for the use of LAEE at a time when removal of a number of existing restrictions is being considered by CCFA. As such we request that consideration is given to the reversal of the introduction of these two new footnotes.
-	Technological effect of Lauric arginate ethyl ester in cheese
l	If further technological justification is required to support the reversal of the introduction of the footnotes, the following can be considered:
	LAEE is a preservative that is also used in products that conform to these commodity standards associated with FC 01.6.2.1. The technical effect of LAEE in food is to inhibit microbial growth in the food to which it has been added, and it is effective in controlling the growth of potentially pathogenic organisms in products falling under 01.6.2.1. The active ingredient of LAEE, as a cationic surfactant, has a wide spectrum of activity against bacteria, yeasts and moulds. Specifically, LAEE affects negatively charged compounds such as microbial proteins present in cellular membranes or in enzyme systems.

	Both hard or ripened and soft or unripened cheese benefit from the additi of preservatives. Age-ripened cheese retain their quality for long periods d to comparatively low pH, low water activity and low redox potential. However spoilage may occur through the action of fungi, lactic acid bacteria and spoi forming bacteria. Pasteurisation may eliminate many spoila microorganisms originating from milk production and processing, but po process contamination of milk and cheese can still occur.	
	Use of the cu disadvantages. surface of chees surface concentralso modifying the Ruig and van de are capable of m which causes a Sensidoni et al.,	urrently authorised preservatives in cheese has some For example, when used to prevent mould growth on the se, sorbates tend to diffuse into the cheese decreasing the ration and thereby decreasing their preservative effect, and the favour, appearance and ripening process of the cheese (de n Berg, 1985). In addition, some moulds that grow on cheese netabolising sorbic acid and sorbate to trans-1,3-pentadiene, an off-odour and flavour (Ledenbach and Marshall, 2009; 1994).
	The technologic cheeses (i.e. FC	al advantages of LAEE over other preservatives for use in 01.6.2.1) include the following:
	• LAEE is effe approved preser	ctive at low and near-neutral pH. In contrast, some currently vatives are only effective at low pH.
	• LAEE is sim yeasts and moul antimicrobial effi range of micro-o	ilarly effective against bacteria (Gram +ve and Gram –ve), lds. Other preservatives must be combined to enhance their cacy because they cannot inhibit the growth of such a wide rganisms by themselves
	• The minimum lower than the organisms. This than for other for	m inhibitory concentrations (MICs) of LAEE are considerably MICs of the other preservatives against the same micro- means that the effective application dose is lower for LAEE of preservatives
	• On ingestion natural constitute effects because decomposed into	n, LAEE can be easily and rapidly metabolised to common, ent metabolic compounds. This implies a lack of adverse e it is a unique food preservative that is metabolically o constituent products.
	International aut	horisation of LAEE
	The use of lauric arginate ethyl ester (LAEE) is permitted for use in products falling under FC 01.6.2.1 in a number of countries worldwide (e.g. Australia New Zealand, Canada, and the USA), without further restriction on its use in products conforming to the relevant Codex commodity standards. These products are also available in international trade. As such, consideration should be given to revising the provisions of the GSFA to reflect the acceptable use of LAEE as a preservative in these products in numerous countries.	
Safe use of additive: Dieta	ry intake	Table 3 additive:
		□ Yes
(as appropriate)		No (Please provide information on dietary intake assessment below)
		The use of lauric acid ethyl ester (INS 243) in cheese products that fall under Codex food category 01.6.2.1, as well as its use in a broad range of other foods, was taken into consideration as part of the JECFA assessment of the safety of the additive in 2009.
Justification that the use does not mislead consumer		When used as a preservative, the use of LAEE would be in the list of ingredients on the label of the products.

REFERENCES

De Ruig, WG and van den Berg G. (1985). Influence of the fungicides sorbate and natamycin in cheese coatings on the quality of the cheese. Neth. Milk Dairy J. ,39, 165-172.

Ledenbach, LH and Marshall, RT. (2009). Microbiological Spoilage of Dairy Products. In: Compendium of the Microbiological Spoilage of Foods and Beverages. Ed. Sperber, W.H. and Doyle, M.P. Food microbiology and Food Safety. Springer p.41-67

Sensidoni A, Rondinini G, Peressini D, Maifreni M, Bortolomeazzi R. (1994). Presence of an off-flavour associated with the use of sorbates in cheese and margarine. Ital. J. Food Sci. 2: 237-242.

III. Food Category 02.2.2 "Fat spreads, dairy fat spreads and blended spreads"

THE PROPOSAL IS SUBMITTED BY:		Australia	
IDENTITY OF THE FOOD ADDITIVE:			
Name of the Additi	ve	Lauric arginate ethyl ester	
As listed in Cla International Numb CAC/GL 36-1989	ass Names and the bering System (INS) -		
INS Number		243	
Functional Class		Preservative	
As listed in Cla International Numb CAC/GL 36-1989	ass Names and the bering System (INS) -		
	(S) OF THE FOOD	The proposal for:	
		□ a new provision; or	
times as needed.	lay be copied as many	⊠ revising an existing provision in Tables 1 and 2 of the GSFA; or	
		□ revising an existing provision in Table 3 of the GSFA (skip to "Is the proposal intended to revise products covered by the commodity standard").	
Food Category No. (²)	Food Category Name (²)	Maximum Use Level (³)	Comments (⁴)
02.2.2	Fat spreads, dairy fat spreads and blended spreads	200 mg/kg	Note XS215 Remove this exclusion from the lauric arginate ethyl ester provisions
Is the proposal rela	ated to a FC with corres	ponding commodity standa	rds?
(if yes indicate the r	elevant FC)		
Yes. FC 02.2.2			
Standard for Fat Sp	reads and Blended Sprea	ds (CODEX STAN 256-2007))
Is the proposal als	Is the proposal also intended to revise the products covered by the commodity standards?		
(if yes indicate the re	elevant commodity standa	ards)	
Yes, to revise products covered by the commodity standard listed above to permit the use of lauric arginate ethyl ester (INS 243) (LAEE).			
EVALUATION BY JECFA:			
Evaluation by JEC	FA	Evaluation date: 2008	
Reference to th (including year ar	e JECFA evaluation nd JECFA session of	Report: TRS 952-JECFA 69	1/27

evaluation; full ADI (nur	merical or "not	Tox Monograph: FAS 60-JECFA 69	
specified"); specifications monograph).		Specifications: FAO JECFA Monographs 7 (2009)	
		ADI 0-4 mg/kg bw for Ethyl-Nα-Lauroyl-L-Arginate	
JUSTIFICATION:			
specified"); specifications m JUSTIFICATION: Justification for use and technological need Supporting information based on the criteria in Section 3.2 of the Preamble of the General Standard for Food Additives (i.e. has an advantage, does not present an appreciable health risk, serves a technological function).	merical or "not nonograph). Tox Monograph: FAS 60-JECFA 69 Specifications: FAO JECFA Monographs 7 (2009) ADI 0-4 mg/kg bw for Ethyl-Na-Lauroyl-L-Arginate Based on Section 3.2 of the Preamble of the General Standard for Food Additives, the main technological need for the use of LAEE in food category 02.2.2 is 3.2(c) 'To enhance to keeping quality or stability of a food'. Provisions were adopted at Step 8 in 2011 for LAEE (INS 243) in food category 02.2.2 at a level of 200 mg/kg. The provisions were adopted with Footnotes 214 and 215 restricting the use of the additive in products conforming with the Standard for Fat Spreads (Codex Stan 253-2006) and the Standard for Fat Spreads and Blended Spreads (CODEX STAN 256-2007) falling under this food category. However, following the completion of the latest phase of the realignment exercise undertaken by the CCFA e-WG, the outcome of which was endorsed by CCFA52 and subsequently adopted by CAC in 2021, it has been accepted that the use of preservatives is justified in products conforming with the Standard for Fat Spreads and Blended Spreads (CODEX STAN 256-2007). The e-WG on alignment is due to review the provisions contained in the Standard for Dairy Fat Spreads (Codex Stan 253-2006) ahead of CCFA 53. When footnotes 214 and 215 were assigned to the provisions for LAEE in FC 02.2.2 in 2011, the justification given was that the relevant commodity committee had not reviewed the provisions in relation to the use of the additive in the respective standards. It should be recognised that the report of CCFA 43 ¹ , at which the provisions for LAEE were adopted, records that "the representative of FAO stated that the inclusion of Notes in the GFA excluding existing related commodity standards might result unwarranted restrictions in the use of new food additives, which had been evaluated by JECFA at		
	<u>committee had not reviewed the use in the standardised food, and since the use of preservatives is considered justified in foods conforming with the standard following the assessment of the e-WG on alignment, it would appear that the retention of the footnote 215 for LAEE in FC 02.2.2 is an unintended consequence of the alignment exercise.</u> <u>International authorisation of LAEE</u>		

¹ https://www.fao.org/fao-who-codexalimentarius/sh-proxy/en/?lnk=1&url=https%253A%252F%252Fworkspace.fao.org%252Fsites%252Fcodex%252FMeetings%252FCX-711-43%252FREP11_FAe.pdf

	The use of lauric arginate ethyl ester (LAEE) is permitted for use in products falling under FC 02.2.2 in a number of countries worldwide, without further restriction on its use in products conforming to the relevant Codex commodity standard. These products are also available in international trade. As such, consideration should be given to remove footnote 215 associated with the provisions for LAEE in the GSFA, to reflect the acceptable use of LAEE as a preservative in these products in numerous countries.		
Safe use of additive:	Dietary intake	Table 3 additive:	
		□ Yes	
(as appropriate)		☑ No (Please provide information on dietary intake assessment below)	
		The use of lauric acid ethyl ester (INS 243) in products that fall under Codex food category 02.2.2, as well as its use in a broad range of other foods, was taken into consideration as part of the JECFA assessment of the safety of the additive in 2009.	
Justification that the u mislead consumer	use does not	When used as a preservative, the use of LAEE would be in the list of ingredients on the label of the products.	

Colombia

I. Jagua (Genipin-Glycine) Blue

THE PROPOSA	AL IS SUBMITTED BY:	Colombia		
IDENTITY OF 1	THE FOOD ADDITIVE:			
Name of the A	dditive	Jagua (Genip	oin-Glycine) Blue	
As listed in Class Names and the International Numbering System (INS) - CAC/GL 36-1989		onims: Jenipapo (genipapo) , Blue jenipapo (genipapo ,Azul de jagua (jagua blue),Azul de huito (huito blue), ,Jagua		
INS Number		INS 183 (add	opted by the 44 th	CAC)
Functional Cla	SS	Colour		
As listed in Class Names and the International Numbering System (INS) - CAC/GL 36-1989				
PROPOSED USE(S) OF THE FOOD AI The rows below may be copied as many as needed.		DDITIVE (¹): times	The proposal fo ■ a new provis □ revising an ex 2 of the GSFA; □ revising an ex GSFA (skip to "I products covered	r: sion; or xisting provision in Tables 1 and or xisting provision in Table 3 of the Is the proposal intended to revise ad by the commodity standard").
Food Category Number	Food Category Name		Maximum use Level	Notes
01.1.4	Flavoured fluid milk drir	nks	160 mg/kg	Note 52: Excluding chocolate milk Note x On a blue polymer basis.
01.6.4.2	Flavoured processed cl including containing fru meat, etc.	heese, it, vegetables,	44 mg/kg	Note x On a blue polymer basis.

01.7	Dairy-based desserts (e.g. pudding, fruit or flavored yoghurt)	120 mg/kg	Note xx Use in frozen dairy confections and novelties at a
			maximum of 400 mg/kg to achieve
			the desired color
02.2	Eat amulaiona maialy of type oil in	160 mg/kg	Note x On a blue polymer basis.
02.3	water, including mixed and/or	160 mg/kg	Note x On a blue polymer basis.
	flavoured products based on fat		
02.4	Fat-based desserts excluding dairy-	200 ma/ka	Note xxx Use in non-dairy frozen
	based dessert products of food	5 5	confections and novelties at a
	category 01.7		maximum of 400 mg/kg to achieve
			the desired color
03.0	Edible ices, including sherbet and	120 ma/ka	Note x On a blue polymer basis.
0010	sorbet	120 119/119	
04.1.2.8	Fruit preparations, including pulp,	120 mg/kg	Note 182: Excluding coconut milk
	purees, fruit toppings and coconut milk		Note x On a blue polymer basis.
04.1.2.5	Jams, jellies, marmalades	120 mg/kg	Note x On a blue polymer basis.
04.1.2.11	Fruit fillings for pastries	120 mg/kg	Note x On a blue polymer basis.
04.1.2.9	Fruit-based desserts, incl. fruit-	120 mg/kg	Note x On a blue polymer basis.
05.1.4	Cocoa and chocolate products	800 mg/kg	Note 183: For use in surface
		5 5	decoration only
			Note x On a blue polymer basis.
05.2	Confectionary including hard and soft	800 mg/kg	Note XS309R: Excluding products
	categories 05.1, 05.3, and 05.4		Standard for Halawa Tehenia
			(CODEX STAN 309R-211)
			Note x On a blue polymer basis.
05.3	Chewing gum	800 mg/kg	Note x On a blue polymer basis.
05.4	Decorations (e.g. for fine bakery	120 mg/kg	Note x On a blue polymer basis.
	wares), toppings (non-truit) and sweet sauces		
06.3	Breakfast cereals, including rolled	2000 mg/kg	For use in ready-to-eat multi-
	oats		colored cereal only; the 2000
			mg/kg is for individual pieces of
			Note x. On a blue polymer basis
06.5	Cereal and starch based desserts	84 mg/kg	Note x On a blue polymer basis.
	(e.g. rice pudding, tapicoa pudding)		
11.4	Other sugars and syrups (e.g.	120 mg/kg	Note x On a blue polymer basis.
	toppings)		
12.2.2	Seasonings and condiments	600 mg/kg	Note x On a blue polymer basis.
13.4	Dietetic formulae for slimming	64 mg/kg	Note x On a blue polymer basis.
12.5	Dietetic foods (e.g. supplementary	64 ma/ka	Note x. On a blue polymor basis
13.3	foods for dietary use) excluding	04 mg/kg	Note x On a blue polymer basis.
	products of food categories 13.1-		
	13.4 and 13.6		
14.1.4	Water-based flavoured drinks,	80 mg/kg	Note x On a blue polymer basis.
	"electrolyte" drinks and		
	particulated drinks		
15.1	Snacks - potato, cereal, flour or	1200 mg/kg	For use in blue/purple tortilla chips
	starch based (from roots and tubers,		only.
1	puises and reguines)		Note x On a blue polymer basis.

15.2	Processed nuts, includi	ng coated	800 mg/kg	For use in yoghurt coating of			
	fruit)			yoghurt-covered nuts only. Note x. On a blue polymer basis			
Is the proposa	I related to a EC with co	orresponding	commodity star	ndards? No			
		e the product	s covered by the	scommodity standards? No			
Evaluation by Reference to	JECFA the JECFA evaluation	FOOD ADDI	TIVES (Safety ev	aluation of certain food additives)			
(including year	and JECFA session of	ADI of 0-11 n	ADI of 0-11 mg/kg bw was established by the Committee for				
evaluation; full	ADI (numerical or "not	Jagua Blue, on a blue-polymer basis.					
specified), spe	cincations monograph).	During this events of the second seco	valuation, the Cor etary exposure to	nmittee concluded that: the Jagua Blue, on a blue polymer			
JUSTIFICATIO	N:	Dasis, uces i	iot represent a ne				
Justification for	or use and	Since Jagua	Blue is a colorant	t, its use improves the organoleptic			
technological	need	properties of	foods. Experts h	ave shown that colour plays an desirability of foods. Colour is			
Supporting info	ormation based on the	considered to	be a major quali	ity factor of food. As the JECFA			
of the Genera	on 3.2 of the Preamble al Standard for Food	evaluation co	oncluded, Jagua E	Blue does not present a health			
Additives (i.e. h	as an advantage, does	Colours are a	already permitted	in the categories listed for the			
not present an	appreciable health risk,	proposed use	es.	<u> </u>			
	ditive: Dietery	Table 3 addit	tive:				
intake asse	essment (as						
appropriate)	Υ.						
		assessment below)					
		An ADI of 0-11 mg/kg bw was established by the committee for Jagua Blue on a blue-polymer basis. This ADI was based on the absence of treatment –related long-term toxicity and of reproductive and developmental toxicity in the 12-month rat dietary study with in-utero exposure, in which the NOAEL was identified as 1127 mg/kg bw per day of the blue polymer, the highest dose tested. The ADI was established by applying and uncertainty factor of 100 to the NOAEL.					
		The Committee noted that the upper end of the high-level dietary exposure estimate for Jagua blue, on a blue-polymer basis, for infants and toddlers of 11.5 mg/kg bw per day is in the region of the upper bound of the ADI. In view of the conservative nature of the dietary exposure assessments, in which it was assumed that all foods contained Jagua blue on a blue-polymer basis at the maximum use level, and because the ADI was based on a NOAEL that was the highest dose tested, the Committee concluded that the estimated dietary exposure to Jagua blue, on a blue-polymer basis, does not represent a health concern.					
lustification th	at the use does not	pages 3-4).					
mislead consu	imer	Other colour listed for accustomed foods conta consumers	s are already per Jagua Blue. I to colours being ining Jagua Blue would not be misl	mitted in the food categories Therefore, consumers are g in these foods. Further, would be labelled. Thus, ed.			

II. Titanium Dioxide

THE PROPOSAL I	S SUBMITTED BY:	Colombia		
IDENTITY OF THE	FOOD ADDITIVE:			
Name of the Addit	live	Titanium Dioxide Synonims: Titania; CI Pigment white 6; CI (1975) No. 77891; INS No. 171		
As listed in Class N Numbering System	lames and the International (INS) - CAC/GL 36-1989			
INS Number		INS No. 171		
Functional Class		Colour		
As listed in Class N Numbering System	lames and the International a (INS) - CAC/GL 36-1989			
PROPOSED USE(S) OF THE FOOD ADDITIVE (1): The rows below may be copied as many times as needed.		The proposal for: ☐ a new provision; or ☐ revising an existing provision in Tables 1 and 2 of the GSFA; or ■ revising an existing provision in Table 3 of the GSFA (skip to "Is the proposal intended to revise		
Food Category	Food Category Name	Maximum use Level	Notes	
01.1.4	Flavoured fluid milk drinks	GMP	N/A	
01.3	Condensed milk and analogues	GMP	N/A	
01.4.3	(plain) Clotted cream (plain)	GMP	N/A	
01.4.4	Cream analogues	GMP	N/A	
01.5	Milk powder and cream powder	GMP	N/A	
01.6.1	Unripened cheese	GMP	N/A	
01.6.2	Ripened cheese	GMP	N/A	
01.6.4	Processed cheese	GMP	N/A	
01.6.5	Cheese analogues	GMP	N/A	
01.7	Dairy-based desserts (e.g. pudding, fruit or flavoured vogburt)	GMP	N/A	
01.8.1	Liquid whey and whey products, excluding whey cheeses	GMP	N/A	
02.2.2	Fat spreads, dairy fat spreads and blended spreads	GMP	N/A	
02.3	Fat emulsions mainly of type oil- in-water, including mixed and/or flavoured products based on fat emulsions	GMP	N/A	
02.4	Fat-based desserts excluding dairy-based dessert products of food category 01.7	GMP	N/A	
03.0	Edible ices, including sherbet and sorbet	GMP	N/A	
04.1.2	Processed fruit	GMP	N/A	
04.2.2.2	Dried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and	GMP	N/A	

	aloe vera), seaweeds, and nuts		
	and seeds		
04.2.2.3	Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds in vinegar, oil, brine, or soybean sauce	GMP	N/A
04.2.2.4	Canned or bottled (pasteurized) or retort pouch vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	GMP	N/A
04.2.2.5	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed purees and spreads (e.g., peanut butter)	GMP	N/A
04.2.2.6	Vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweed, and nut and seed pulps and preparations (e.g. vegetable desserts and sauces, candied vegetables) other than food category 04.2.2.5	GMP	N/A
04.2.2.8	Cooked or fried vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweeds	GMP	N/A
05.0	Confectionery	GMP	N/A
06.3	Breakfast cereals, including rolled oats	GMP	N/A
06.4.3	Pre-cooked pastas and noodles and like products	GMP	N/A
06.5	Cereal and starch based desserts (e.g. rice pudding, tapioca pudding)	GMP	N/A
06.6	Batters (e.g. for breading or batters for fish or poultry)	GMP	N/A
06.7	Pre-cooked or processed rice products, including rice cakes (Oriental type only)	GMP	N/A
06.8	Soybean products (excluding soybean-based seasonings and condiments of food category 12.9)	GMP	N/A
07.0	Bakery wares	GMP	N/A
08.2	Processed meat, poultry, and game products in whole pieces or cuts	GMP	N/A
08.3	Processed comminuted meat,	GMP	N/A
08.4	Edible casings (e.g. sausage casings)	GMP	N/A
09.3	Semi-preserved fish and fish products, including mollusks,	GMP	N/A

	crustaceans, and echinoderms		
09.4	Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms	GMP	N/A
10.2.3	Dried and/or heat coagulated	GMP	N/A
10.3	Preserved eggs, including alkaline, salted, and canned eggs	GMP	N/A
10.4	Egg-based desserts (e.g. custard)	GMP	N/A
11.6	Table-top sweeteners, including those containing high-intensity sweeteners	GMP	N/A
12.2.2	Seasonings and condiments	GMP	N/A
12.3	Vinegars	GMP	N/A
12.4	Mustards	GMP	N/A
12.5	Soups and broths	GMP	N/A
12.6	Sauces and like products	GMP	N/A
12.7	Salads (e.g. macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.3	GMP	N/A
12.8	Yeast and like products	GMP	N/A
12.9	Soybean-based seasonings and condiments	GMP	N/A
12.10	Protein products other than from soybeans	GMP	N/A
13.3	Dietetic foods intended for special medical purposes (excluding products of food category 13.1)	GMP	N/A
13.4	Dietetic formulae for slimming purposes and weight reduction	GMP	N/A
13.5	Dietetic foods (e.g. supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 and 13.6	GMP	N/A
13.6	Food supplements	GMP	N/A
14.1.4	Water-based flavoured drinks, including "sport," "energy," or "electrolyte" drinks and particulated drinks	GMP	N/A
14.2.1	Beer and malt beverages	GMP	N/A
14.2.2	Cider and perry	GMP	N/A
14.2.4	Wines (other than grape)	GMP	N/A
14.2.5	Mead	GMP	N/A
14.2.6	Distilled spirituous beverages containing more than 15% alcohol	GMP	N/A
14.2.7	Aromatized alcoholic beverages (e.g. beer, wine and spirituous cooler-type beverages, low	GMP	N/A

	alcoholic refreshers)					
15.0	Ready-to-eat savouries	GMP	N/A			
16.0	Prepared foods	GMP	N/A			
Is the proposal re	lated to a FC with corresponding	commodity standards? N	lo			
Is the proposal al	Is the proposal also intended to revise the products covered by the commodity standards? No					
EVALUATION BY	JECFA:					
Evaluation by JE	CFA	Prepared at the 76th JECF	A (2012) and published (2012)			
Reference to the JECFA evaluation (including year and JECFA session of evaluation; full ADI (numerical or "not specified"); specifications monograph).		Superseding specifications prepared at the 73rd JECFA (2010) and published in FAO JECFA Monographs 10 (2010). An ADI "not limited" was established at the 13th JECFA (1969).				
JUSTIFICATION:						
Justification for u	ise and technological need	Since titanium dioxide is a colorant, its use				
Supporting information based on the criteria in Section 3.2 of the Preamble of the General Standard for Food Additives (i.e. has an advantage, does not present an appreciable health risk, serves a technological function).		PROPOSALS FOR ADDITIONS AND CHANGES TO THE PRIORITY LIST OF SUBSTANCES PROPOSED FOR EVALUATION BY JECFA (REPLIES TO CL 2019/41-FA AND CL 2020/37) (Agenda item 7)				
		Canada introduced the iter session WG on Priority wa meeting format. He explain CX/FA 21/52/12 Add.1 (Re and other relevant docume which addressed the Priori Proposed for Evaluation by prepared. He proposed tha consider CRD6 as the bas () <u>Discussion</u> <i>Titanium dioxide (INS 171)</i> In response to the request timeline for the call for data titanium dioxide (INS 171), even though titanium dioxi priority list, it would be in 2 would be issued.	m, noting that no in- s held due to the virtual hed that, based on eplies to CL 2021/61-FA) ents, a report (CRD6) ity List of Substances y JECFA has been at the Committee is for discussion.) for clarification on the a and re-evaluation of Canada clarified that de was put on the 023 when a call for data			
		One Member stressed a point fittanium dioxide is remove based on EFSA's recent of that titanium dioxide is wid additive and that the risk a would begin in 2024 at the JECFA Secretariat to construct on the expedite the risk of the risk additional structure.	otential impact on trade red from EU market pinion and given the fact ely used as a food ssessment by JECFA earliest. He urged the ider every possible assessment by JECFA.			
		The JECFA Secretariat, in concern, stated that JECF, expedite the process.	response to the A would do its best to			
		SCIENTIFIC OPINION: Sa	fety assessment of			

titaniu	um dioxide (E171)as a food additive
	PTED: 25 March 2021)
1.	additive titanium dioxide(F 171) based on
	new relevant scientific evidence considered
	by the Panel to be reliable, including data
	obtained with TiO2 nanoparticles (NPs)
	and data from an extended one-
	generation reproductive toxicity
_	(EOGRT) study.
2.	Less than 50% of constituent particles by
	number in E 1/1 have a minimum external
	almension < 100 nm. Constituent particles
	narticles by number
3.	The Panel concluded that although
0.	astrointestinal absorption of TiO2 particles
	is low, they may accumulate in the body.
4.	Studies on general and organ toxicity did
	not indicate adverse effects with either
	E 171 up to a dose of1,000 mg/kg body
	weight (bw) per day or with TiO2NPs
	(>30 nm) up to the highest dose tested
	of100 mg/kg bw per day. No effects on
	reproductive and developmental toxicity
	171/kg bw per day, the highest dose tested
	in the EOGRT study
5.	However, observations of potential
0.	immunotoxicity and inflammation with E
	171 and potential neurotoxicity with TiO2
	NPs, together with the potential induction of
	aberrant crypt foci with E 171, may indicate
_	adverse effects.
6.	Genotoxicity, the Panel concluded that
	1 iO2 particles have the potential to induce
	DNA strand breaks and chromosomal
	damage, but not gene mutations.
CONC	CLUSION.
Based	on all the evidence available, a concern for
genote	oxicity could not be ruled out, and given the
many	uncertainties, the Panel concluded that E
171 ca	an no longer be considered as safe when
used a	as a food additive.
00141	
	AISSION REGULATION (EU) 2022/03
amen	ding Annexes II and III to Regulation (EC)
No 13	33/2008 of the European Parliament and
of the	Council as regards the food additive
titaniu	um dioxide (E 171)
THE E	UROPEAN COMMISSION, ()
HAS A	ADOPTED THIS REGULATION:
Article	e 1
Annex	es II and III to Regulation (EC) No
1333/2	2008 are amended in accordance with the
Annex	to this Regulation.
	ez
	August 2022, 10005 produced IN
Febru	ance with the rules applicable before 7 and any 2022 may continue to be placed on the
marke	t. After that date, they may remain on the

	market until their date of minimum durability or 'use by' date. Article 3 The Commission shall, following consultation on the European Medicines Agency, review the necessity to maintain titanium dioxide (E 171) or to delete it from the Union list of food additives for the exclusive use as colour in medicinal products in Part B of Annex II to Regulation (EC) No 1333/2008 within three years after the date of entering into force of this Regulation
	Article 4 This Regulation shall enter into force on the twentieth day following that of its publication in the Official Journal of the European Union.
	According to said above, Colombia expresses its concern regarding the Scientific Opinion published by EFSA which, consequently, has resulted in the issuance of Regulation 2022/63 by the European Union. In this regard, Colombia respectfully requests to know the position of the Codex Alimentarius Commission on the "Codex General Standard for Food Additives" (GSFA, Codex STAN 192-1995), regarding the decision of the European Union to suspend the use of Titanium Dioxide as a colour additive in foods.
Safe use of additive: Dietary intake assessment (as appropriate)	Table 3 additive: ■ Yes
	X No (Please provide information on dietary intake assessment below)
Justification that the use does not mislead consumer	N/A

Egypt

I. Allura red AC

THE PROPOSAL IS SUE	BMITTED BY:	EGYPT			
IDENTITY OF THE FOOD	ADDITIVE:	1			
Name of the Additive		Allura rec	Allura red AC		
As listed in Class Names Numbering System (INS)	and the International - CAC/GL 36-1989				
INS Number		129	129		
Functional Class		Colou	Colour		
As listed in Class Names Numbering System (INS)	and the International - CAC/GL 36-1989				
PROPOSED USE(S) OF	THE FOOD ADDITIVE (¹):	The proposal for:	The proposal for:		
The rows below may be c	opied as many times as neede	⊠ a new provision; or			
		 revising an existing provi the GSFA; or 	sion in Tables 1 and 2 of		
		⊠ revising an existing prov GSFA (skip to "Is the prop products covered by the com	vision in Table 3 of the osal intended to revise nmodity standard").		
Food Category No. (²)	Food Category Name (²)	Maximum Use Level (³)	Comments (⁴)		
14.1.3.1	Fruit Nectar	GMP			
14.1.3.2	Vegetable Nectar	GMP			
Fruit & Vegetable Nectar Is the proposal also inte Yes, CXS 247	ended to revise the products	covered by the commodity s	standards?		
EVALUATION BY JECF	A:				
Evaluation by JECFA		Evaluation year: 2016			
Reference to the JECFA	evaluation (including year ar	ndADI: 0-7 mg/kg bw			
JECFA session of evalua specified"); specifications	ttion; full ADI (numerical or "n monograph).	ot https://apps.who.int/food-adv jecfa-database/Home/Chem	ditives-contaminants- ical/2361		
JUSTIFICATION:					
Justification for use and Supporting information ba of the Preamble of the Additives (i.e. has an ad appreciable health risk, s	d technological need ased on the criteria in Section 3 e General Standard for Foc dvantage, does not present a erves a technological function)	Provide better sensorial prop behavior of product through the nature of the fruit/vegeta an b.	perties & enhance out shelf life no matter ble.		
Safe use of additive: Die appropriate)	etary intake assessment (as	Table 3 additive: ☑ Yes □ No (Please provide info intake assessment below)	Table 3 additive: ☑ Yes □ No (Please provide information on dietary intake assessment below)		
Justification that the use	e does not mislead consume	r Natural colour			

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II. Annatto extracts

THE PROPOSAL IS SUBMITTED BY:		EGYPT				
IDENTITY OF THE FOOD ADDITIVE:		•				
Name of the Additive		Annatto extracts				
As listed in Class Names and the						
International Numbering System (I	NS) -					
CAC/GL 36-1989						
INS Number			160b			
Functional Class			Colour			
As listed in Class Names and the						
International Numbering System (I	NS) -					
CAC/GL 36-1989						
PROPOSED USE(S) OF THE FOO	D ADD	ITIVE	The proposal for:			
(¹):			⊠ a new provision; or			
The rows below may be copied as I	many tir	nes as	revising an existing provision	in Tables 1 and 2 of the		
needed.			GSFA; or			
			⊠ revising an existing provision	in Table 3 of the GSFA		
			(skip to "Is the proposal inten	ded to revise products		
	F I		covered by the commodity stands	ard").		
Food Category No. (²)	Food		Maximum Use Level (³)	Comments (⁴)		
	Catego	ory o				
	Name	(²)				
14.1.3.1	Fruit N	ectar	GMP			
14.1.3.2	Vegeta	ıble	GMP			
	Nectar					
Is the proposal related to a FC w	ith corr	respond	ing commodity standards?			
(If yes indicate the relevant FC)						
Yes						
Fruit & Vegetable Nectar	rovice	honrod	lusts severed by the semmedity	r oton dordo 2		
Is the proposal also intended to	ditu ata	ne prou	lucts covered by the commonly	standards?		
	ully sta	nuarus)				
EVALUATION DT JECFA:			tion year: 2006			
Peteronoo to the IECEA evaluation			BIXIN: 0-12 ma/ka bw: NORBIXIN	AND ITS SODILIM		
(including year and JECEA sest	sion of		POTASSILIM SALT: 0-0.6 ma/ka l	hw (aroun ADI		
evaluation: full ADI (numerical of	or "not	expressed as norbixin)				
specified"): specifications monogra	oh).	https://apps.who.int/food-additives-contaminants-jecfa-				
		database/Home/Chemical/2706				
JUSTIFICATION:		I				
Justification for use and technol	logical	Provide	e better sensorial properties & enh	ance behavior of		
need	•	product throughout shelf life no matter the nature of the				
Supporting information based of	on the	fruit/veg	getable.			
criteria in Section 3.2 of the Preamble of						
the General Standard for Food Additives						
(i.e. has an advantage, does not present						
an appreciable health risk, serves a						
technological function).		-				
Sate use of additive: Dietary intal	ke	Table 3	additive:			
assessment (as appropriate)		凶 Yes				
		□ No	o (Please provide information on d	ietary intake		
		assess	assessment below)			
Justification that the use does no	ot	Natural	colour			
mislead consumer						

III. Calcium carbonate

THE PROPOSAL IS SUBMITTED BY:	EGYPT
IDENTITY OF THE FOOD ADDITIVE:	
Name of the Additive	Calcium carbonate

As listed in Class Names and the International						
INS Number		170(i)				
Functional Class		170(1)				
As listed in Class Names and the Intern	ational	Colou	r			
Numbering System (INS) - CAC/GL 36-19	89	00104				
		1	The p	ropo	sal for:	
				N	a new provision; or	
		1、	□ revising an existing provision		revising an existing provision in	
The rouge below may be carried as m	IIIVE ('):	Tables 1 and 2 of the GSFA; or		ables 1 and 2 of the GSFA; or	
needed	any un	les as		\times	revising an existing provision in Table 3	
				of	the GSFA (skip to "Is the proposal	
				int	tended to revise products covered by the	
	F			CC	ommodity standard").	
2	Food	on /	maxi	nu		
Food Category No. (²)	Caley	(2)		05e	Comments (4)	
	Name	(~)	Leve	(3)		
14.1.3.1	Fruit N	vectar	GMP			
14.1.3.2	Vegeta	able r	GMP			
Is the proposal related to a FC with corr	respon	dina c	ommo	ditv	standards?	
(if ves indicate the relevant FC)	copon	ang o		arty		
Yes						
Fruit & Vegetable Nectar						
Is the proposal also intended to revise t	the pro	ducts	cover	ed by	y the commodity standards?	
(if yes indicate the relevant commodity sta	ndards)				
Yes, CXS 247						
EVALUATION BY JECFA:						
Evaluation by JECFA				Eva	aluation year: 1965	
Reference to the JECFA evaluation (includ	ding yea	ar and JEC		ECFA ADI: NOT LIMITED		
session of evaluation; full ADI (numerical	l or "no	ot spec	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	("); <u>https://apps.wno.int/food-additives-</u>		
specifications monograph).				database/Home/Chemical/457		
JUSTIFICATION:				<u>uuu</u>		
				Pro	vide better sensorial properties &	
Justification for use and technological	need			enhance behavior of product thro		
Supporting information based on the criter	for Ec	ection	3.2 01 ditivos	she	If life no matter the nature of the	
the Preamble of the General Standard for Fo			uilives	fruit	t/vegetable.	
health risk, serves a technological function).						
	·/·			<u> </u>		
				Tab	ble 3 additive:	
Safe use of additive: Dietary intake	e asse	essmer	nt (as		⊠ Yes	
appropriate)			`		□ NO (Please provide	
					assessment below)	
Justification that the use does not misle	ad con	sumer	,	Nat		
	au con	isumer		Indi		

IV. Caramel

THE PROPOSAL IS SUBMITTED BY:	EGYPT
IDENTITY OF THE FOOD ADDITIVE:	
Name of the Additive	caramel colour
	CARAMEL COLOUR, Class I
As listed in Class Names and the International	CARAMEL COLOUR, Class II
Numbering System (INS) - CAC/GL 36-1989	CARAMEL COLOUR, Class III
	CARAMEL COLOUR, Class IV
INS Number	150a,b,c,d
Functional Class	Colour
As listed in Class Names and the International	
Numbering System (INS) - CAC/GL 36-1989	
PROPOSED USE(S) OF THE FOOD ADDITIVE (¹):	The proposal for:

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The rows below may be copied as many times as needed.		⊠ a new provisio □ revising in Tables 1 and 2 ⊠ revising an e Table 3 of the G proposal intende covered by standard").	on; or an existing provision 2 of the GSFA; or existing provision in GSFA (skip to "Is the of to revise products the commodity	
Food Category No. (²)	Food Category	Maximum Use Level (³)	Comments (⁴)	
	Name (²)			
14.1.3.1	Fruit Nectar	GMP		
14.1.3.2	Vegetable	GMP		
(if yes indicate the relevant FC) Yes Fruit & Vegetable Nectar Is the proposal also intended to revise the products cover (if yes indicate the relevant commodity standards) Yes, CXS 247 EVALUATION BY JECFA: Evaluation by JECFA Reference to the JECFA evaluation (including year and JECFA session of evaluation; full ADI (numerical jecfa-dat		pps.who.int/food-additives	tandards?	
JUSTIFICATION:	I.			
Justification for use and technological need Supporting information based on the criteria in Section 3.2 of the Preamble of the General Standard for Food Additives (i.e. has an advantage, does not present an appreciable health risk, serves a technological function).		better sensorial properties r of product throughout sho f the fruit/vegetable.	& enhance elf life no matter the	
Safe use of additive: Dietary intake assessment Table 3		additive:		
(as appropriate)		⊠ Yes		
			No (Please provide information on	
(dietary intake assessment	t below)	
Justification that the use does not mislead Natu		colour		
consumer				

V. Carmines

THE PROPOSAL IS SUBMITTED BY:		EGYPT	EGYPT	
IDENTITY OF THE FOOD ADDITIVE:				
Name of the Additive		Carmines		
As listed in Class Names and the International	1			
Numbering System (INS) - CAC/GL 36-1989				
INS Number		120		
Functional Class		Colour		
As listed in Class Names and the International	1			
Numbering System (INS) - CAC/GL 36-1989				
PROPOSED USE(S) OF THE FOOD ADDITIVE (¹): The rows below may be copied as many times as needed.		The proposal for: ⊠ a new provision □ revising a in Tables 1 and 2 ⊠ revising an ex Table 3 of the GS proposal intended covered by standard").	n; or of the GSFA; or xisting provision in SFA (skip to "Is the t to revise products the commodity	
Food Category No. (²)	Food	Maximum Use Level (³)	Comments (⁴)	

	Catego	ory		
	Name	(²)		
14.1.3.1	Fruit N	ectar	GMP	
14.1.3.2	Vegeta	able	GMP	
	Nectar			
Is the proposal related to a FC with corres	ponding	g comm	odity standards?	
(if yes indicate the relevant FC)				
Yes				
Fruit & Vegetable Nectar			<u> </u>	
Is the proposal also intended to revise the	produc	cts cove	red by the commo	odity standards?
(if yes indicate the relevant commodity stands	ards)			
Yes, CXS 247				
EVALUATION BY JECFA:		-		
Evaluation by JECFA		Evaluation year. 2000 $ADI: 0.5 ma/ka hw (1982)$		
Reference to the JECFA evaluation (including year		ADI: 0-5	mg/kg bw (1962)	
and JECFA session of evaluation, full ADI (numerical		httpp://o	and who int/food or	dditivos conteminanta
		iocfa-da	<u>ops.wno.ini/1000-ac</u>	nical/1079
				<u>Ilical/1073</u>
Justification for use and technological neg	he	Provide	hetter sensorial pro	perties & enhance
Supporting information based on the crite	eria in l	hehavioi	of product through	out shelf life no matter the
Section 32 of the Preamble of the G	General	nature o	f the fruit/vegetable	
Standard for Food Additives (i.e. ha	as an			
advantage, does not present an appre	eciable			
health risk, serves a technological function).				
Safe use of additive: Dietary intake assess	ment	Table 3	additive:	
(as appropriate)			⊠ Yes	
			No (Please	provide information on
			dietary intake asse	ssment below)
Justification that the use does not mislead		Natural	colour	
consumer				

VI. Carotenes, beta

THE PROPOSAL IS SUBMITTED BY:			EGYPT	
IDENTITY OF THE FOOD ADDITIVE:	·			
Name of the Additive			Carotenes, beta-,	vegetable
As listed in Class Names and the Internation	nal			
Numbering System (INS) - CAC/GL 36-1989)			
INS Number			160a(ii)	
Functional Class			Colour	
As listed in Class Names and the Internation	nal			
Numbering System (INS) - CAC/GL 36-1989			1	
PROPOSED USE(S) OF THE FOOD ADDITI	VE (¹):		The proposal for:	
The rows below may be copied as many time	s as needed.		🗵 a new provisio	on; or
			revising an existing provision	
			in Tables 1 and 2 of the GSFA; or	
			🗵 revising an e	existing provision in
			Table 3 of the G	SFA (skip to "Is the
			proposal intende	d to revise products
			covered by	the commodity
	1		standard").	
Food Category No. (²)	Food Category		Maximum Use Level (³)	Comments (⁴)
	Name (²)			
14.1.3.1	Fruit Nectar	•	GMP	
14.1.3.2 Vegetable			GMP	
Nectar				
Is the proposal related to a FC with corres	sponding cor	nm	odity standards?	
(if yes indicate the relevant FC)				
Yes				

Fruit & Vegetable Nectar	
Is the proposal also intended to revise the produ	cts covered by the commodity standards?
(if yes indicate the relevant commodity standards)	
Yes, CXS 247	
EVALUATION BY JECFA:	
Evaluation by JECFA	Evaluation year: 1993
Reference to the JECFA evaluation (including year	ADI: NOT SPECIFIED
and JECFA session of evaluation; full ADI (numerical	
or "not specified"); specifications monograph).	https://apps.who.int/food-additives-contaminants-
	jecfa-database/Home/Chemical/1320
JUSTIFICATION:	
Justification for use and technological need	Provide better sensorial properties & enhance
Supporting information based on the criteria in	behavior of product throughout shelf life no matter the
Section 3.2 of the Preamble of the General	nature of the fruit/vegetable.
Standard for Food Additives (i.e. has an	
advantage, does not present an appreciable	
health risk, serves a technological function).	
Safe use of additive: Dietary intake assessment	Table 3 additive:
(as appropriate)	⊠ Yes
	No (Please provide information on
	dietary intake assessment below)
Justification that the use does not mislead	
consumer	

VII. Chlorophylls

THE PROPOSAL IS SUBMITTED BY:		EGYPT			
IDENTITY OF THE FOOD ADDITIVE:					
Name of the Additive			Chlorophylls		
As listed in Class Names and the Internation	nal				
Numbering System (INS) - CAC/GL 36-1989	9				
INS Number		140			
Functional Class			Colour		
As listed in Class Names and the Internation	nal				
Numbering System (INS) - CAC/GL 36-1989	9				
PROPOSED USE(S) OF THE FOOD ADDIT	$IVE(^1)$:		The proposal for:		
The rows below may be copied as many time	es as need	led.	🗵 a new provisio	on; or	
			revising a	an existing provision	
			in Tables 1 and 2	of the GSFA; or	
			🗵 revising an e	existing provision in	
			Table 3 of the G	SFA (skip to "Is the	
			proposal intende	d to revise products	
		covered by the commodity standard").			
Food Category No. $(^2)$	Food		Maximum Use Level (³)	Comments $(^4)$	
	Category	/			
	Name (²)				
14.1.3.1	Fruit Nec	tar	GMP		
14.1.3.2	Vegetable		GMP		
	Nectar				
Is the proposal related to a FC with corre	sponding	comm	odity standards?		
(if yes indicate the relevant FC)					
Yes					
Fruit & Vegetable Nectar					
Is the proposal also intended to revise th	e product	ts cove	ered by the commodity s	tandards?	
(if yes indicate the relevant commodity standards)					
Yes, CXS 247					
EVALUATION BY JECFA:					
Evaluation by JECFA		Evaluation year: 1969			
Reference to the JECFA evaluation (inclu	ding year	ADI: NOT LIMITED			
and JECFA session of evaluation; full ADI (I	numerical	https://apps.who.int/food-additives-contaminants-			
or "not specified"); specifications monograph).		jecfa-database/Home/Chemical/369			

JUSTIFICATION:	
Justification for use and technological need	Provide better sensorial properties & enhance
Supporting information based on the criteria in	behavior of product throughout shelf life no matter
Section 3.2 of the Preamble of the General	the nature of the fruit/vegetable.
Standard for Food Additives (i.e. has an advantage,	
does not present an appreciable health risk, serves	
a technological function).	
Safe use of additive: Dietary intake assessment	Table 3 additive:
(as appropriate)	⊠ Yes
	No (Please provide information on
	dietary intake assessment below)
Justification that the use does not mislead	Natural colour
consumer	

New Zealand				
THE PROPOSAL IS SUBMITTED BY:		New Zealand		
IDENTITY OF THE FOOD ADDITIVE:				
Name of the Additive		Sorbates:		
As listed in Class Names and the International Numbering System (INS) - CAC/GL 36-1989		Sorbic acid Potassium Calcium sc	l (200) Sorbate (202) orbate (203)	
INS Number			INS 200, 202, 203	1
Functional Clas	S		Preservative	
As listed in Class International Num CAC/GL 36-1989	s Names and the nbering System (INS) - 9			
PROPOSED USE(S) OF THE FOOD The ADDITIVE (1): Image: Comparison of the comparis		The □ a ☑ r 0 □ r GS cov	e proposal for: a new provision; or evising an existing GSFA; or evising an existing FA (skip to "Is the p ered by the commo	provision in Tables 1 and 2 of the provision in Table 3 of the roposal intended to reviseproducts idity standard").
Food Category	Food Category Name	Ma	ximum Use	Comments (⁴)
No. (²)	(²)	Lev	vel (³)	
FC 01.6.1	Unripened Cheese	Incr 100 300 100 3,00	rease the ML from DOmg/kg to DOmg/kg: Domg/kg Domg/kg	The following Notes have been taken from CRD003 of CCFA52 "Report of the 52nd CCFA's Virtual Working Group on endorsement and alignment" which includes some new Notes proposed out of the alignment work at CCFA52 and which was endorsed by CCFA52 and CAC43, but which have not as of the time of writing been implemented into the GSFA. Remove Note 223 because it becomes redundant if the ML is 3000mg/kg: Note 223: Except for use in products containing added fruits, vegetables, or meats at 3 000 mg/kg Maintain the other Notes: Note 42: As sorbic acid Note H273275: For use in cheese mass only of products conforming to the Standard for Cottage Cheese (CXS 273-1968) and the Standard for Cream Cheese (CXS 275-1973): sorbic acid (INS 200), potassium sorbate (INS 202), calcium sorbate (INS 203. Note J221: For use in cheese mass and the surface treatment of sliced, cut, shredded and grated cheese products conforming to the Group Standard for Unripened Cheese including Fresh Cheese (CXS 221-2001): sorbic acid

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			(INS 200), potassium sorbate (INS 202), calcium sorbate (INS 203).
FC 01.6.2	Ripened Cheese	3,000 mg/kg	The following Notes have been taken from CRD003 of CCFA52 "Report of the 52nd CCFA's Virtual Working Group on endorsement and alignment" which includes some new Notes proposed out of the alignment work at CCFA52 and which was endorsed by CCFA52 and CAC43, but which have not as of the time of writing been implemented into the GSFA:
			Replace Note 457 with a new Note in order to allow the products listed in Note 457 to use sorbates at ML of 3000mg/kg:
			Note 457: Except for use in products conforming to the Standards for Cheddar (CXS 263-1966), Danbo (CXS 264-1966), Edam (CXS 265-1966), Gouda (CXS 266-1966), Havarti (CXS 267-1966), Samsø (CXS 268-1966), Emmental (CXS 269-1967), Tilsitor (CXS 270-1968), Saint-Paulin (CXS 271-1968) and Provolone (CXS 272- 1968): at a maximum level of 1000 mg/kg for surface treatment only
			New Note1: For use in products conforming to the Standards for Cheddar (CXS 263-1966), Danbo (CXS 264-1966), Edam (CXS 265- 1966), Gouda (CXS 266-1966), Havarti (CXS 267-1966), Samsø (CXS 268- 1966), Emmental (CXS 269-1967), Tilsiter (CXS 270-1968), Saint-Paulin (CXS 271-1968) and Provolone (CXS 272-1968): for surface treatment only
			Delete Note C283 so that the ML is 3000mg/kg even for the products listed in Note C283:
			Note C283: For use in the cheese mass at 3000 mg/kg, and for surface or rind treatment of sliced, cut, shredded or grated cheese only at 1000 mg/kg, for products conforming to the General Standard for Cheese (CXS 283-1978): sorbic acid (INS 200), potassium sorbate (INS 202) and calcium sorbate (INS 203), as sorbic acid.
			Maintain the other Notes:
			Note 42: As sorbic acid
			Note XS274: Excluding products conforming to the Standard for Coulommiers (CXS 274-1969)

			Note XS276: Excluding products conforming to the Standard for Camembert (CXS 276-1973) Note XS277: Excluding products conforming to the Standard for Brie (CXS 277-1973) Note XS208: Excluding products conforming to the Standard for Cheese in Brine (CODEX STAN 208-1999) Note B278: Except for use in products conforming to the Standard for Extra Hard Grating Cheese (CXS 278-1978): sorbic acid (INS 200), potassium sorbate (INS 202) and calcium sorbate (INS 203), at 1000 mg/kg as sorbic acid in the final product.	
Is the proposal re	elated to a FC with corr	responding commodity	v standards?	
(if yes indicate the	e relevant FC)			
Yes. FC 01.6.1, F	C 01.6.2, and its subcate	egories		
ls the proposal a	lso intended to revise t	the products covered h	by the commodity standards?	
(if yes indicate the	relevant commodity sta	ndards)		
(Il yes indicate the	(If yes indicate the relevant commodity standards)			
res. Products in t	Yes. Products in the following commodity standards will be affected by the proposed change.			
FC 01.6.1: CXS 221-2001 Group Standard for Unripened Cheese, including Fresh Cheese CXS 262-2007 Standard for Mozzarella CXS 273-1968 Standard for Cottage Cheese CXS 275-1973 Standard for Cream Cheese CXS 283-1978 Standard for Cheese (unripened, including fresh cheese) –See also CODEX STAN 221-2001				
FC 01.6.2: CXS 263-1966 Standard for Cheddar CXS 264-1966 Standard for Danbo CXS 265-1966 Standard for Edam CXS 266-1966 Standard for Gouda CXS 267-1966 Standard for Havarti CXS 268-1966 Standard for Havarti CXS 268-1966 Standard for Samso CXS 269-1967 Standard for Emmental CXS 270-1968 Standard for Tilsiter CXS 271-1968 Standard for Saint Paulin CXS 272-1968 Provolone CXS 283-1978 General Standard for Cheese (ripened, including mould ripened) EVALUATION BY JECFA:				

Evaluation by JECFA Reference to the JECFA evaluation (including year and JECFA session of evaluation; full ADI (numerical or "not specified"); specifications monograph).	Evaluation year: 1973 ADI: 0-25 mg/kg-bodyweight As sum of sorbic acid and calcium, potassium and sodium sorbates (expressed as sorbic acid) Meeting: 17 Specs Code: R (1976) Specification: COMPENDIUM ADDENDUM 12/FNP 52 Add. 12/68 (METALS LIMITS) (2004). FAO JECFA Monographs 1 vol.3/401
JUSTIFICATION:	
Justification for use and technological need Supporting information based on the criteria in Section 3.2 of the Preamble of the General Standard for Food Additives (i.e. has an advantage, does not present an appreciable health risk, serves a technological function).	The request is for an increase of the existing ML for sorbates in cheese from 1000mg/kg to 3000mg/kg especially for shredded cheese. The proposed new level harmonises the MLs for sorbates applied as a surface treatment across unripened cheese and ripened cheese, whether they are standardised products or not, and in whichever format (e.g. shredded or not). The current discrepancy where different MLs apply does not relate to food safety considerations. Sorbates provide an important role for preventing mould growth, particularly for shredded cheese. MLs higher than 1000mg/kg are needed to be effective for a variety of reasons: The process of dosing sorbates on to shredded cheese is inherently variable, and in order for all portions of a batch to comply with an ML of 1,000 mg/kg, cheese is underdosed across a batch on average. This leads to other portions of a batch being underdosed to the extent that there is insufficient sorbate to prevent mould growth. This then leads to avoidable food waste. Mould needs oxygen for growth and, if present, is found on the surface of cheese. Shredded cheese requires higher dosage than block cheese due to the increased surface area. All the shred surfaces must be evenly coated with sorbate for sorbate to be effective. Any surfaces without sorbate are at risk of mould growth. While mould growth on a block of cheeses can be easily seen on the surface, mould on shredded cheese is harder to see and isolate, and there is a lot more surface area for growth. Shredded cheese can be contaminated by the shredding process. Mould growth can be disturbed and re- distributed throughout the shred during movement of the bags. Mould grows to high levels before it can be visually seen, and there may be off odours / flavours produced prior to visual spoilage It is common for gas flushed (fresh shred) products manufactured on 'form filled sealing machines' for small pinholes to occur on packaging within the process. The higher sorbate addition helps to minimise mould in these situations.
	impacts. Higher levels may be needed where the cheese is

exported to warmer climates or where logistical movements cannot maintain the cool change as per recommended

	storage instructions. Additionally, due to the number of movements within the supply chain small stress fractures on the packaging can lead to small pin holes occurring allowing oxygen to enter and mould to grow. Again, a higher dosage rate will help minimise the risk. Therefore, it is recommended to increase the ML to 3000mg/kg especially for shredded cheese. A level of 3000mg/kg does not present an appreciable health risk as per the JECFA safety evaluation and the dietary exposure discussed below.
Safe use of additive: Dietary intake	Table 3 additive:
assessment (as appropriate)	□ Yes
	No (Please provide information on dietary intake assessment below)
	Dietary exposure to sorbates has been evaluated by Food Standards Australia New Zealand <u>https://www.foodstandards.govt.nz/publications/doc</u> <u>uments/21st%20ATD%20Study%20report-</u> <u>Aug051.pdf</u> . Highest exposure (as a % of ADI) was for 2–5-year-old males. The high 95 th percentile consumers within this group had an intake at 40% of the ADI. Of this group's exposure, 17% came from cheese.
	Assuming a 16 kg bodyweight (actually for the 2–3- year-old males within this group), and ADI of 25 mg/kg-bodyweight, this allows for a total sorbate intake of 400 mg.
	Non-cheese foods will account for 83% of 40% of the ADI, i.e. 400 mg \times 0.83 \times 0.40 = 132.8 mg. this means that sorbate exposure via cheese would need to be 267.2 mg to reach 100% of the ADI.
	Because Australian high 95 th percentile cheese consumers within the 2–3-year-old population subgroup have a cheese intake of 0.082 kg- cheese/day, the cheese would need to contain 267.2 mg \div 0.082 kg-cheese/day = 3,258 mg/kg- cheese.
	Rounding down provides a ML of 3,000 mg/kg-
Justification that the use does not mislead consumer	The use of one or more of the sorbates as an additive will be labelled in the ingredients list to inform the consumer that it is present.
	Sorbates are already permitted in unripened and ripened cheeses, so this does not introduce any new additives into these products.
	Additionally, the use of sorbates is to prevent mould growth (permitted preservative function) rather than to alter the consumer's perception of the product in a way that is misleading.

	Peru				
THE PROPOSAL IS P	RESENTED BY:	Peru			
FOOD ADDITIVE IDE	NTIFICATION:	I			
Name of the food additive According to the list of Class names and the International Numbering System for Food Additives (INS) – CAC/GL 36-1989		Polydimethylsiloxane			
INS number		900a			
Functional Class According to the list of Class names and the International Numbering System for Food Additives (INS) - CAC/GL 36-1989		Antifoaming agent			
PROPOSED USES OF THE ADDITIVE FOOD (1): The rows listed below can be copied as many times as necessary.		 The proposal of a new provision; or review an existing provision in GSFA tables one and two; or review an existing provision in GSFA Table three (move to "Does the proposal also aim to review products covered by product standards?") 			
Food Category No. (²)	Food Category Name (²)	Maximum level of use (³)	Comments (⁴)		
04.1.2.5	Jams, jellies, marmalades	30 mg/kg in GSFA	Maximum level 10 mg/kg in CXS 296-2009 Standard for jams, jellies, marmalades		
Is the proposal relate Yes, to the Food Categ	d to a food category (FC) gory 04.1.2.5 jams, jellies, m	with its correspor	nding product standards?		
Does the proposal als (If yes, please indicate	so aim to review the product the relevant product standa	ucts covered by th ards)	ne products standards?		
JECFA EVALUATION	:				
Evaluation of JECFA Reference to JECFA evaluation (including year and meeting of JECFA evaluation; full ADI (numerical or "unspecified"); specifications monograph).		In the 69th JECFA (2008), published in Monograph 5 (2008) replacing the specifications prepared in the 37th JECFA (1990). A temporary ADI of $0 - 0.8$ mg/kg bw was established at the 69th JECFA meeting (2008); and at the 74th JECFA meeting (2011) an ADI of 0-1.5 mg/kg bw published in Monograph 11 (2011) was established.			
JUSTIFICATION: Justification for its use and technological need Supporting information based on the criteria set out in Section 3.2 of the Preamble to the General Standard for Food Additives (i.e., it offers some advantage, does not present appreciable risks to consumer health, plays a technological role).		Section 3.2 Criterion. From the GSFA Preamble: Increase the preservation quality or stability of a food. The use of an antifoaming agent in food is safe since it reduces the amount of foam in the product (food), in the case of jams, jellies (because it is a relatively prolonged cooking process of fruit and sugar release effect of vegetable protein, antifoaming agents are therefore necessary.			
Safe use of the additive: assessment of food intake (as applicable) NOT APPLICABLE Justification that the use is not misleading to		 Table three additives: Yes No (Please provide information on food intake assessment) The use of antifoaming agents in this category of food 			
the consumer		helps the quality of so it can not b consumer.	ot preservation or stability of the food e considered as deception to the		

Senegal						
THE PROPOSAL IS SUBMITTED BY:	THE PROPOSAL IS SUBMITTED BY: SENEGAL					
IDENTITY OF THE FOOD ADDITIVE: BASIC METHACRYLATE COPOLYMER (BMC)						
Name of the Additive As listed in Class Names and the Internat Numbering System (INS) - CAC/GL 36-19	Name of the Additive As listed in Class Names and the International Numbering System (INS) - CAC/GL 36-1989			INS n°. 1205		
INS Number				1205		
Functional Class As listed in Class Names and the Internat Numbering System (INS) - CAC/GL 36-19	tional 089		CARRIER-ENCAPSULATING GLAZING AGENT INS 1205			
PROPOSED USE(S) OF THE FOOD ADDITIVE (¹): The rows below may be copied as many times as nee		: eeded.	 The proposal for: ☑ a new provision; or ☑ revising an existing provision in Tables 1 and 2 of the GSFA; or ☑ revising an existing provision in Table 3 of the GSFA (skip to "Is the proposal intended to revise products covered by the commodity standard")) provision in GSFA; or) provision in Table roposal intended ered by the	
Food Category No. (²)	Food C	ategory		Maximum Use Level	Comments (⁴)	
FC 06.1	Name (2) Whole, Broken or Flaked Grain		or	GMP		
FC 11.1.1	White S	Sugar		GMP		
FC 11.2	Brown S Excludir of Fc 11	Sugar, ng Produ I.1.3	icts	GMP		
FC 11.1.2	Powdered Sugar –		r —	GMP		
Is the proposal related to a FC with corr (if yes indicate the relevant FC) NO	respond	ing com	modi	ity standards?		
Is the proposal also intended to revise (if yes indicate the relevant commodity sta NO	the prod indards)		verec	I by the commodity sta	andards?	
	Y	ES				
Evaluation by JECFA Reference to the JECFA evaluation (including year and JECFA session of evaluation; full ADI (numerical or "not specified"); specifications monograph).		BMC MONOGRAPH 22 (2018) CAS number 24938-16-17 INS number 1205				
JUSTIFICATION:						
Justification for use and technological need Supporting information based on the criteria in Section 3.2 of the Preamble of the General Standard for Food Additives (i.e. has an advantage, does not present an appreciable health risk, serves a technological function).		Fortification of sugar and rice (staple foods in Senega and developing countries) to reduce micronutrients deficiencies in population. BMC will be used to encapsulate the micronutrients.		e foods in Senegal micronutrients be used to		
Safe use of additive: Dietary intake assessment (as appropriate)		Table 3 additive:				
ADI not specified		 No (Please provide information on dietary intake assessment below) 				
Justification that the use does not misle consumer	ad	ADI n	ot spe	ecified		

FoodDrinkEurope					
THE PROPOSAL IS SUBMITTED BY: FoodDrinkEurope					
IDENTITY OF THE FOOD ADDITIVE:					
Name of the Additive As listed in Class Names and the International Numbering System (INS) - CAC/GL 36-1989		Polyglycerol Esters of Interesterified Ricinoleic Acid			
INS Number		INS 476			
Functional Class As listed in Class Names and the International Numbering System (INS) - CAC/GL 36-1989		Emulsifier			
PROPOSED USE(S)	OF THE FOOD ADDITIVE	The proposal for:			
		\Box a new provision; or			
needed.	be copied as many times as	\boxtimes revising an existing provision and 2 of the GSFA; or	on in Tables 1		
		revising an existing provisi the GSFA (skip to "Is the proprevise products covered by standard").	on in Table 3 of posal intended to the commodity		
Food Category No. (²)	Food Category Name (²)	Maximum Use Level (³)	Comments (4)		
12.6.1	Emulsified sauces and dips (e.g. mayonnaise, salad dressing, onion dip)	5,000 mg/kg 8,000 mg/kg (only emulsified sauces and dips with > 20% fat content)	Not applicable		
Is the proposal relat (<i>if yes indicate the rel</i> No	ed to a FC with correspond evant FC)	ling commodity standards?			
Is the proposal also (<i>if yes indicate the rel</i> No	intended to revise the proc evant commodity standards)	ducts covered by the commod	ity standards?		
EVALUATION BY JE	CFA:				
Evaluation by JECF Reference to the JE year and JECFA ses (numerical or "not monograph).	A CFA evaluation (including sion of evaluation; full ADI specified"); specifications	Evaluation year: 1973 ADI: 0 – 7.5 mg/kg bw Meeting: 17 Report: <u>NMRS 53/TRS 539-JECFA 17/20</u> Tox Monograph: <u>FAS 6/NMRS 53A-JECFA 17/246</u> Specification: <u>COMPENDIUM ADDENDUM</u> <u>8/FNP 52 Add. 8/203 (METALS LIMITS) (2000).</u> <u>R; FAO JECFA Monographs 1 vol. 3/79</u>			
JUSTIFICATION:					
Justification for use need Supporting informatic Section 3.2 of the I Standard for Food advantage, does no	and technological on based on the criteria in Preamble of the General Additives (i.e. has an t present an appreciable	INS 476 (PGPR) is known to be emulsifier that allows the produ- emulsified sauces with improve properties. Reducing the oil lev sauces and dips can contribute intake of consumers.	e an excellent action of lower fat ed sensory rels of emulsified e to reduced fat		

health risk, serves a technological function).	PGPR (E 476) has been evaluated by the European Food Safety Authority in 2017, with a new ADI being set at max. 25 mg/kg bw/d.
Safe use of additive: Dietary intake assessment (as appropriate)	 Table 3 additive: □ Yes ⊠ No (Please provide information on dietary intake assessment below)
	A detailed exposure assessment has been undertaken using recent individual food consumption data from the United Kingdom (National Diet and Nutrition Survey (UK NDNS)) and Latin America - Brazil (Inquéritos Nacionais de Alimentação (INA)), and data from model diets from Europe (the European Food Safety Authority (EFSA) Comprehensive Food Consumption Database) and from global diets (the FAO/WHO Chronic Individual Food Consumption database – Summary statistics, CIFOCOss).
	Two scenarios of exposure were evaluated using these food consumption survey data. The first scenario considered all uses of INS 476 in line with the uses and use levels specified in the GSFA - the 'baseline' scenario. The second scenario considered the existing uses along with the proposed modification to the use of INS 476 in food category 12.6.1 described above – the 'modified' scenario. From the intake assessments conducted, the proposed modification to the use of INS 476 in food category 12.6.1 had little effect on exposure across all population groups examined (i.e., <7% increase in mean and 95th percentile intakes in the UK and Brazil, \leq 10% increase in the EFSA Comprehensive database, and <2% increase in the CIFOCOss global diets).
Justification that the use does not mislead consumer	When PGPR is used as a technical additive, the consumer will be informed of its presence by its declaration in the product ingredients list, as per 4.2.1.2 of the <i>General Standard for the Labelling of Prepacked Foods (CXS 1-1985).</i> In addition, many countries have standardized
	the most common product from FC 12.6.1, which is mayonnaise. As such, there will never be confusion between the regular product and the oil-reduced version containing PGPR, because the resulting reduction in total fat will no longer allow using the legal denomination of the standardized food.

FIVS (Fédération internationale des vins et spiritueux)

By way of background, FIVS is a global trade federation for the alcohol beverage industry since 1951, and a Codex Observer. We are committed to providing a venue and developing tools to encourage social, environmental, and economic sustainability among our members and the wider sector, in keeping with the United Nations Sustainable Development Goals. Our membership includes producers, importers, exporters, and trade associations (currently accounting for 75% of the wine traded globally). We also welcome and collaborate effectively with affiliates from allied industries.

Please find attached our proposal for the inclusion of potassium polyaspartate in the GSFA as a new additive for winemaking.

THE PROPOSAL IS SUBMITTED BY:					
IDENTITY OF THE FOOD ADDITIVE:					
Name of the Additive		Potassi	um polya	spartat	e
As listed in Glass Names and the Internation	onal			-	
Numbering System (JNS) - CACIGL 36-198	39				
INS Number		456			
Functional Class		Stabilize	ər		
As listed in Glass Names and the Internation	onal				
Numbering System (INS) - CACIGL 36-198	39				
PROPOSED USE(S) OF THE FOOD ADD	TIVE (¹):	The prop	oosal for:		
The rows below may be copied as many tim	nes as	a new pr	rovision; o	r	
needed.		□revising	g an existii	ng prov	ision in Tables 1 and
Stabilizer against tartrate crystal precipita	tion in	2 of the	GSFA; or	0.	
wine		□revising	g an existii	ng prov	ision in Table 3 of the
		GSFA (s	skip to "Is t	he prop	osal intended to revise
		Products	s covered	by the c	commodity standard").
Food Category No. (2)	Food Ca	ategory	Maximur	n Use	Comments (⁴)
	Name (2	2)	Level (3)		
			300 mg/	'L in	100 mg/L in wine,
			wine		-
					in countries that
					follow
					the OIV indications
Is the proposal related to a FC with corre	espondir	ng comn	nodity sta	andard	s? Not
(if ves indicate the relevant FC)					
Is the proposal also intended to revise the	he produ	icts cove	ered by th	ne com	modity standards?
Not	•		•		-
(if yes indicate the relevant commodity star	ndards}				
EVALUATION BY JECFA:					
Evaluation by JECFA				JECFA	A 87th meeting, 2019.
Reference to the JECFA evaluation (including	year and	JECFA s	ession of	Full sp	ecifications
evaluation; full AD/ (numerical or "not	specifie	ed; spec	ifications	design	ated into FAO JECFA
monograph).				monog	jraph 23
JUSTIFICATION:					
Justification for use and technological n	eed			Serves	a technological
Supporting information based on the crite	ria in Se	ection 3.2	2 of the	functio	n (wine tartrate crystal
Preamble of the General Standard for Fo	od Additi	ives (i.e.,	has an	stabiliz	er)
advantage, does not present an apprecia	ble heal	th risk, s	serves a		
technological/ function).					
Safe use of additive: Dietary intake assessment (priate)	Table 3	3 additive:
www.efsa.europa.eu/efsajournal EFSA Jo	urnal 20	16; 14(3)	:4435	i;a Yes	
				□ No (F	Please provide
				informa	ation on dietary intake
				assess	ment below)
Justification that the use does not mislea	ad consu	mer		Effecti	ve stabilizing agent
				that pr	eserves the original
				wine c	omposition.

IADSA						
THE PROPOSAL	THE PROPOSAL IS SUBMITTED BY: International Alliance of Dietary/Food supplement Associations(IADSA) Associations(IADSA)					
IDENTITY OF TH	E FOOD ADDITIVE:					
Name of the Additive As listed in Class Names and the International Numbering System (INS) - CAC/GL 36-1989		AZORU	AZORUBINE (CARMOISINE)			
INS Number		INS 122				
Functional Class As listed in Class Names and the International Numbering System (INS) - CAC/GL 36-1989		Colour	Colour			
PROPOSED USE(S) OF THE FOOD ADDITIVE (1): The rows below may be copied as many times as needed.		E (1): IS	The proposal for: a new provision; or X revising an existing provision in Tables 1 and 2 of the GSFA; or revising an existing provision in Table 3 of the GSFA (skip to "Is the proposal intended to revise products covered by the commodity standard")			
Food Category No. (²)	Food Category Name (²)		Maximum Use Level (³)	Comments (⁴)		
13.6	5 Food Supplements		300 mg/kg	Note B6 For use in solid forms as sold to the consumer only. & Note B7 Except for use at 100 mg/kg in liquid forms as sold to the consumer only. Proposed revision: Inclusion of a New Note in addition to B6 & B7 : "Except for use at 1100mg/kg in effervescent forms as sold to the consumer only"		
Is the proposal r	elated to a FC with correspo	onding co	ommodity standards	s? No		
Is the proposal also intended to revise the products covered by the commodity standards? No						
EVALUATION BY JECFA:						
Evaluation by JECFAYear:1983 MeetingReference to the JECFA evaluation (including year and JECFA session of evaluation; full ADI (numerical or "not specified"); specifications monograph).Year:1983 Meeting 0-4 mg/kg bwMonograph: https://www.fao.org/fileadmin/user_upload/jecfa_add es/docs/Monograph1/Additive-050.pdf				1983) nin/user_upload/jecfa_additiv itive-050.pdf		

JUSTIFICATION:

Justification for use and technological need	Technical needs
Supporting information based on the criteria in Section 3.2 of the Preamble of the General Standard for Food Additives (i.e. has an advantage, does not present an appreciable health risk, serves a technological function).	Effervescent forms are solid forms sold to the consumer that are intended to be dissolved in a specific amount of liquid prior to consumption following the manufacturers' instructions.
	AZORUBINE (CARMOISINE) (INS122) is used as a colour in food supplements in effervescent tablet forms at levels up to 1100 mg/kg in the solid forms as sold to the consumers, corresponding to 36 mg/kg in the liquid form prior to consumption (1 effervescent tablet of 6.5g - corresponding to 7.15 mg of AZORUBINE - to be dissolved in a glass of water of 200 ml)
	In effervescent forms, AZORUBINE (CARMOISINE) (INS122) is used:
	 To make the preparation more uniform in the tablet,
	 To colour the water quickly and ensure that visual interest generated during the effervescent reaction is not lost in the liquid form, and
	 To match the flavour in the liquid after the dissolution of the effervescent tablet.
	It was clarified at the 52 nd Session of CCFA (2021), that provisions for colours in FC13.6 apply to the forms as sold to consumers only.
	The inclusion of the new Note below for effervescent forms associated with AZORUBINE (CARMOISINE) (INS 122) is therefore required for the additive to perform its technological function in the food supplement ready for consumption, after the dissolution of the effervescent tablet in the liquid. Proposed New Note: "except for use at 1100mg/kg in effervescent forms as sold to the consumer only"
Safe use of additive: Dietary intake	Table 3 additive:
assessment (as appropriate)	□ Yes
	X No (Please provide information on dietary intake assessment below)
	At the 52 nd Session of CCFA (2021), provisions for AZORUBINE (CARMOISINE) (INS 122) were adopted in FC13.6 at a maximum level of 300 mg/kg in solid forms as sold to the consumer only (Note B6) and 100 mg/kg in liquid forms as sold to the consumer only (Note B7).

	Effervescent forms are solid forms sold to the		
	consumer that are intended to be dissolved in a specific amount of liquid prior to consumption.		
	36 mg/kg in the liquid form (prior to consumption following the dissolution of the effervescent form) is required to achieve the technical needs. This is equivalent to:		
	 36% of the ML adopted by CAC44 for liquid forms as sold to the consumer, corresponding to a ML of 1100 mg/kg in the solid form as sold to the consumer only. 		
Justification that the use does not mislead consumer	The use of AZORUBINE (CARMOISINE) (INS122) fulfills the conditions listed in section 3.2.		
	The use of AZORUBINE (CARMOISINE) (INS122) as a food additive would be indicated on the label of the food supplement together with the conditions of use to permit the dissolution of the effervescent form. The use of this colour would not affect the quality of the food supplement that would be expected by consumers.		

IFAC (International Food Additives Council)

IFAC is a global association representing manufacturers and end-users of food additives. IFAC has NGO Observer status before Codex Alimentarius and appreciates the opportunity to provide the following information.

IFAC is requesting that CCFA revise the food additive provisions for dimethyl dicarbonate (INS 242) to include the following Food Categories: FC 14.1.2 (Fruit and vegetable juices) and FC 14.1.3 (Fruit and vegetable nectars). Please find the enclosed Annex 1 containing the additional requested information. Thank you for your consideration. If you have any questions, please contact me.

THE PROPOSAL IS SUBMITTE	D BY:	: International Food Additives Council (IFAC), 529 14th Street			
		NW, Suite 1280, Washington, DC 20045, USA			
IDENTITY OF THE FOOD ADDI	TIVE:				
Name of the Additive		Dimethyl	dicarbonate (DMDC)		
As listed in Class Names and the	e	-			
International Numbering System – CAC/GL 36-1989	(INS)				
INS Number		242			
Functional ClassAs listed in Class Names and theInternational Numbering System (INS) -CAC/GL 36-1989PROPOSED USE(S) OF THE FOOD ADDI		Preserva DITIVE	ITIVE The proposal for:		
('): The rows below may be copied as mai as needed.		ny unies	 □ revising an existin the GSFA; or □ revising an existin GSFA (skip to "Is the products covered by 	g provision in Tables 1 and 2 of g provision in Table 3 of the proposal intended to revise the commodity standard").	
Food Category No. (²)	Food C Name (ategory ²)	Maximum Use Level (³)	Comments (⁴)	
14.1.2	Fruit an vegetat juices	d bles	250 mg/kg	Subject to national legislation of the importing country.	

14.1.3	Fruit and		250 mg/kg	Subject to national legislation of			
	vegetable	•	0 0	the importing country.			
	nectars						
Is the proposal related to a FC	with corre	espondii	ng commodity st	andards? Yes			
(if yes indicate the relevant FC)							
FCs 14.1.2.1, 14.1.2.3, 14.1.3.1 and 14.1.3.3							
Is the proposal also intended	to revise tr	ne produ	icts covered by t	ne commodity standards? Yes			
General Standard for Fruit Juice	(If yes indicate the relevant commonity standards)						
			5247-2003)				
Evaluation by IECEA Evaluation year: 1000							
Reference to the JECFA ev	aluation	ADI: Not	specified				
(including year and JECFA se	ssion of C	Commen	its: Acceptable for	use as a cold sterilization agent in			
evaluation; full ADI (numerical	<i>or "not</i> b	beverage	s when used acco	rding to good manufacturing			
specified"); specifications monog	<i>ıraph).</i> p	practice u	ip to a maximum o	oncentration of 250 mg/l			
	N	Meeting:	37				
	S	Specs Co	ode: N				
	F	Report:	TRS 806-JECFA 3	<u>37/23</u>			
		OX WON	ograph: <u>FAS 28-</u>	JECFA 37/231			
	1	2/67 (M	ETALS LIMITS) (2	004) R: EAO JECEA Monographs 1			
		/ol.1/473					
	Ē	Previous	Years: 1990, CO	MPENDIUM/515. N			
JUSTIFICATION:	1						
Justification for use and	0	DMDC is	used as a microbi	al control agent and/or processing			
technological need	a	aid in nor	n-alcoholic bevera	ges and wine, according to national			
Supporting information based	on the le	legislation. DMDC is added to the beverage package (such as					
criteria in Section 3.2 of the Prea	amble of b	pottle or o	can) before the filli	ng process. The mode of action is to			
the General Standard for Food A	<i>aditives</i> p	benetrate	the cells of micro	organisms and inactivating some of			
(i.e. nas an advantage, does not	present li	ne key e wdrolvee	nzymes required i	of water to form small amounts of			
technological function).		methanol and carbon dioxide, which are common constituents					
	0	of beverages. DMDC protects beverages during the sensitive					
	p	processing step of filling and hence, prolongs the shelf life of					
	b	beverages without imparting flavor or color of the product. The					
	u	use of DMDC is safe for human consumption according the					
	p	proposed	uses.				
Safe use of additive: Dietary in		able 3 a	dditive:				
assessment (as appropriate)		⊥Yes XNa/D	laana muu ida infa	mation on distanciatolo			
			iease provide inici	mation on dietary intake			
		SSESSIII	eni Delow) vnosure estimates	based on U.S. National Health and			
		Jutrition	Examination Surve	(NHANES) and the European			
	F	Food Saf	etv Authority's (EF	SA) Comprehensive European			
	F	Food Consumption Database.					
Justification that the use does	not D	DMDC is	used as a cold ste	erilizing agent during filling. Any			
mislead consumer	e	excess D	MDC is hydrolyse	d to carbon dioxide and methanol,			
	tl	hus DME	DC is not present i	n the final beverage and several			
	countries have decided to recognize DMDC as						
	a	aiù. IT à C ist this is	ountry has the hee				
		ist ti 115 15 nav miel	possible based of	as DMDC is not present in the			
	fi	inished r	product and no lon	ner provides any preserving			
	properties.						

NATCOL (Natural Food Colours Association)

The Natural Food Colours Association (NATCOL) appreciates the opportunity to submit a proposal for the inclusion of Riboflavin from Ashbya gossypii in the food additive group RIBOFLAVINS and the addition of RIBOFLAVINS to Table 3 of the GSFA. Both requests are based on the result of the 92nd JECFA.

To this end, please find enclosed Annex I of CL 2021/55-FA duly completed.

NATCOL is an international organization acting on behalf of the natural food colour industry and as observer, it is submitting this proposal for consideration at the CCFA53 meeting.

We are ready to answer questions and provide additional information as requested to meet GSFA's requirements.

THE PROPOSAL IS SUBMITTED BY:	Natural Food Colours Association (NATCOL)			
IDENTITY OF THE FOOD ADDITIVE:				
Name of the Additive	RIBOFLAVINS	group:		
As listed in Class Names and the	Riboflavin, synthetic			
International Numbering System	Riboflavin 5'-phosphate sodium			
(INS) - CAC/GL 36-1989	Riboflavin from Bacillus subtilis			
	and			
	Riboflavin from	n Ashbya gossypii (new; should be included in the		
	group RIBOFLAVINS based on 92 nd JECFA)			
INS Number	Riboflavin, synthetic INS 101(i)			
	Riboflavin 5'-pl	hosphate sodium INS 101(ii)		
	Riboflavin from	n Bacillus subtilis INS 101(iii)		
	Riboflavin from	n Ashbya gossypii INS 101(iv)		
Functional Class	Functional class	ss "Colour" and technological purpose "colour"		
As listed in Class Names and the				
International Numbering System				
(INS) - CAC/GL 36-1989				
PROPOSED USE(S) OF THE FOOD A	DDITIVE (1):	The proposal for:		
The rows below may be copied as man	y times as	X a new provision; or		
needed.		X revising an existing provision in Tables 1 and 2		
		of the GSFA; or		
		□ revising an existing provision in Table 3 of the		
		GSFA (skip to "Is the proposal intended to revise		
		products covered by the commodity standard").		
		Commont		
		Firstly:		
		We propose inclusion of Riboflavin from Ashbya		
		accession in the food additive group RIBOFLAVINS		
		based on 92 nd JECEA)		
		Secondly:		
		We propose based on 92 nd JECFA,		
		RIBOFLAVINS can be added to Table 3 of the		
		GSFA.		
		Meaning, that existing provisions for		
		RIBOFLAVINS in Tables 1 and 2 would then		
		either need to be discontinued (because covered		
		via Table 3 if RIBOFLAVINS get listed in Table 3)		
		or maintained unchanged in Table 1 and 2		
		provided respective food categories are not		
		covered by Table 3 (i.e. those listed in the Annex		
		to Table 3). Within Table 3, in column 5 (specific		
		allowance in certain commodity standards), all		
		those commodity standards would need be added		
		to that column where the commodity standard		
		specifically allows RIBOFLAVINS. This means no		
		change in any Commodity Standard as such,		
		except indirectly for those that allow the technical		
		class of colours per se.		

		In a nutshell: Proposal is - inclusion of Riboflavin from <i>Ashbya</i> <i>gossypii</i> in the food additive group RIBOFLAVINS based on 92 nd JECFA - and inclusion of RIBOFLAVINS in Table 3 and adjustment of all other relevant provisions in the OSEA implied by that a deliver. The provisions in		
		otherwise aims at k presently permitted GSFA.	eeping the status quo of RIBOFLAVIN uses in the	
Food Category No. (²)	Food Category Name (²)	Maximum Use Level (³)	Comments (⁴)	
All Food categories covered by Table 3 GSFA	Riboflavin, synthetic, Riboflavin 5'-phosphate sodium, Riboflavin from <i>Bacillus subtilis</i> and Riboflavin from <i>Ashbya gossypii</i> Food categories-covered by Table 3 GSFA	GMP	ADI "not specified"	
Table 1 and 2	For all those food categories in synthetic, Riboflavin 5'-phospha presently permitted and which a the RIBOFLAVINS group in Tab concern 57 food categories. An can be shared with the Committ Those food categories that are n remain in Table 1 and 2 as is an in the following (12 food categories)	Table 1 and 2 for whith the sodium and Ribofla tre eligible for coverage ole 3, need be discont overview of the 57 fo ee. not eligible for covera and add for Riboflavin f ries):	ch the use of Riboflavin, avin from <i>Bacillus subtilis</i> is ge via Table 3 upon inclusion of inued in Table 1 and 2. This od categories is available and ge via Table 3, and thus need rom <i>Ashbya gossypii</i> are listed	
04.1.1.2	Surface-treated fresh fruit	300 mg/kg Notes 4 and 16	Existing Riboflavin, synthetic, Riboflavin-5'-phosphate sodium and Riboflavin from Bacillus subtilis provision in Table 1 and 2 but not covered by Table 3 should be kept	
04.2.1.2	Surface-treated fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds	300 mg/kg Notes 4 and 16	Existing Riboflavin, synthetic, Riboflavin-5´-phosphate sodium and Riboflavin from Bacillus subtilis provision in Table 1 and 2 but not covered by Table 3 should be kept	
04.2.2.7	Fermented vegetable (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera) and seaweed products, excluding fermented soybean products of food categories 06.8.6, 06.8.7, 12.9.1, 12.9.2.1 and 12.9.2.3	500 mg/kg	Existing Riboflavin, synthetic, Riboflavin-5´-phosphate sodium and Riboflavin from Bacillus subtilis provision in Table 1 and 2 but not covered by Table 3 should be kept	
09.2.1	Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	1000 mg/kg Notes 95, XS36, XS92, XS95, XS165, XS190, XS191, XS292, XS312, XS315	Existing Riboflavin, synthetic, Riboflavin-5´-phosphate sodium and Riboflavin from Bacillus subtilis provision in Table 1 and 2 but not covered by Table 3 should be kept	

09.2.2	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	300 mg/kg Notes 16, XS166	Existing Riboflavin, synthetic, Riboflavin-5'-phosphate sodium and Riboflavin from Bacillus subtilis provision in Table 1 and 2 but not covered by Table 3 should be kept	
09.2.3	Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms	300 mg/kg Note 16	Existing Riboflavin, synthetic, Riboflavin-5´-phosphate sodium and Riboflavin from Bacillus subtilis provision in Table 1 and 2 but not covered by Table 3 should be kept	
09.2.4.1	Cooked fish and fish products	300 mg/kg Note 95	Existing Riboflavin, synthetic, Riboflavin-5'-phosphate sodium and Riboflavin from Bacillus subtilis provision in Table 1 and 2 but not covered by Table 3 should be kept	
09.2.4.2	Cooked mollusks, crustaceans, and echinoderms	300 mg/kg	Existing Riboflavin, synthetic, Riboflavin-5'-phosphate sodium and Riboflavin from Bacillus subtilis provision in Table 1 and 2 but not covered by Table 3 should be kept	
09.2.4.3	Fried fish and fish products, including mollusks, crustaceans, and echinoderms	300 mg/kg Note 16	Existing Riboflavin, synthetic, Riboflavin-5´-phosphate sodium and Riboflavin from Bacillus subtilis provision in Table 1 and 2 but not covered by Table 3 should be kept	
09.2.5	Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms	300 mg/kg Notes 22, XS167, XS189, XS222, XS236, XS244, XS311	Existing Riboflavin, synthetic, Riboflavin-5'-phosphate sodium and Riboflavin from Bacillus subtilis provision in Table 1 and 2 but not covered by Table 3 should be kept	
10.1	Fresh eggs	300 mg/kg Note 4	Existing Riboflavin, synthetic, Riboflavin-5'-phosphate sodium and Riboflavin from Bacillus subtilis provision in Table 1 and 2 but not covered by Table 3 should be kept	
11.3	Sugar solutions and syrups, also (partially) inverted, including treacle and molasses, excluding products of food category 11.1.3	300 mg/kg	Existing Riboflavin, synthetic, Riboflavin-5´-phosphate sodium and Riboflavin from Bacillus subtilis provision in Table 1 and 2 but not covered by Table 3 should be kept	
Is the proposal related to a FC with corresponding commodity standards? (<i>if yes indicate the relevant FC</i>) Yes, those Commodity Standards that presently permit RIBOFLAVINS specifically, should be listed in column 5 of Table 3 according to presently applied Table 3 rules. All other remaining Commodity Standards either allow no colour use at all, allow colours per se, or permit only colours other than				

RIBOFLAVINS. The proposal would thus not change any provisions in existing Commodity standards.

s the proposal also intended to revi (if yes indicate the relevant commodity	se the products covered by the commodity standards? standards)
EVALUATION BY JECFA:	02nd JECEA sossion 2021 (WIHO Food Additives Series 82 and
Reference to the IECEA evaluation	WHO TRS 1037).
(including year and IECEA session of	"The Committee at its present meeting noted that the toxicity
evaluation: full ADI (numerical or "not	database on riboflavin from various sources reviewed previously
specified"): specifications monograph)	by the Committee does not indicate any adverse effects
	The Committee at its present meeting established a group ADI
	"not specified"for riboflavin, riboflavin-5´-phosphate, riboflavin from
	B. subtilis and riboflavin
	from A. gossypii and withdrew the previous group ADI of 0–0.5
	mg/kg bw.
	A toxicological and a dietary exposure monograph was prepared.
	New specifications and a Chemical and Technical Assessment
	were prepared."
	Specifications/Monographs:
	Riboflavin, synthetic
	FAO JECFA Monograph 1 (2006)
	Riboflavin 5'-phosphate sodium
	FAO JECFA Monograph 1 (2006) Dihaflavin from Dacillus subtilia
	Riboliavin from Bacilius subtilis
	Piloflavin from Ashbya gossynii
	FAO_{i} IFCFA Monograph 27 (2021)
JUSTIFICATION:	
Justification for use and	Riboflavins serve a technological function by adding or restoring
technological need	colour to a food. Its yellowish to orange-yellowish colour hue is
Supporting information based on the	unique and suitable to supplement the colour spectrum achievable
criteria in Section 3.2 of the Preamble	with other colours.
of the General Standard for Food	Riboflavins do not present any appreciable health risk to
Additives (i.e. has an advantage, does	consumers. The 2021 JECFA safety assessment of the substance
not present an appreciable health risk,	at the Committees 92 nd session, which included dietary exposure,
serves a technological function).	concluded on an ADI not specified for this colour.
	(CMD) stated in Section 2.2 of the Broomble of the Conorol
	(GMF) Stated III Section 5.5 of the Freamble of the General Standard for Ecod Additives
	RIBOEL AVINS are presently already permitted in the GSEA in
	numerous food categories in Table 1 and 2.
Safe use of additive: Dietary intake	Table 3 additive:
assessment (as appropriate)	X Yes -> ADI "not specified"
	No (Please provide information on dietary intake assessment)
	below)
Justification that the use does not	Riboflavins are intended to be used in line with the food colour
mislead consumer	definition in CAC/GL 36-1989. Food categories where colour use
	could be misleading to consumers, for example fluid buttermilk
	(plain), fats and oils essentially free from water, fresh fruit,
	fresh/dried pastas and noodles and like products to name a few,
	are excluded from Riboflavins colour use, see Annex to Table 3
	GOFA.
	in addition, Ribonavins shall be used under conditions of good
	Preamble of the GSFA
	It is also noted that RIBOFI AVINS are already permitted in
	numerous food categories in Table 1 and 2.