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FOOD AND AGRICULTURE
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Agenda Item 4(c)

CX/MMP 08/8/6
October 2007

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

Eighth Session

Queenstown, New Zealand, 4-8 February 2008

PROPOSED DRAFT AMENDMENT TO THE LIST OF ADDITIVES OF THE CODEX STANDARD FOR CREAMS AND PREPARED CREAMS (N08-2006)

(at Step 3)

Prepared by International Dairy Federation (IDF)

Governments and international organizations wishing to submit comments on the proposed draft Amendments to the List of Additives of the Codex Standard for Creams and Prepared Creams are invited to do so **no later than 15 December 2007** to: Codex Committee on Milk and Milk Products, New Zealand Food Safety Authority, 68 - 86 Jervois Quay, P.O. Box 2835, Wellington, New Zealand (Facsimile: +64 4 8942530 or E-mail: Audrey.Taulalo@nzfsa.govt.nz), with a copy to the Secretary, Codex Alimentarius Commission, Joint FAO/WHO Food Standards Programme, Viale delle Terme di Caracalla, 00153 Rome, Italy (Fax No + 39 06 57054593; E-mail: codex@fao.org).

I. BACKGROUND

1. The Seventh Session of CCMMP agreed¹ to a project proposal of IDF² to amend the list of additives included in the Codex Standard for Creams and Prepared Creams (CODEX STAN A-9-1976), and agreed that the review would encompass all the list of food additives.
2. The Committee agreed to forward the Project Document to the 29th Session of the Commission for approval as new work under the Accelerated Procedure. Pending approval, a revised list would be circulated for comments at Step 3 and discussion by the 8th Session of the Committee.
3. The 29th Session of the Commission approved the amendment to the Codex Standard as new work N08-2008) for the Committee³.
4. The project document states that the purpose is to revise and update the list of additives in section 4 of the Codex Standard for Creams and Prepared Creams, CODEX STAN A-9-1976. The scope is limited to the list of specific additives in section 4 of the standard.
5. The proposed revision is essentially to incorporate an updated list of additives⁴ that was available to the Fifth Session of CCMMP, but was not included in the standard at that time for procedural reasons⁵. One other additive (requested by Japan) is also technologically justified.

¹ ALINORM 06/29/11, paras 156-159

² CX/MMP 06/7/12

³ ALINORM 06/29/41 para. 124 and Appendix VIII

⁴ CX/MMP 02/3

⁵ ALINORM 03/11, paras 25-29

6. The main aspects to be covered are to revise the list of additives in section 4 of the Standard for Cream and Prepared Creams to:

- Include additives that are technologically justified.
- Establish maximum levels for some additives, to be consistent with the policy of establishing maximum levels for additives having numerical ADIs.

7. The revision relates also to the General Standard for Food Additives.

8. The Commission adopted the proposed project as new work in 2006 (job code N08-2006).

II. DESCRIPTION OF THE LIST OF ADDITIVES

9. IDF has prepared a revised list of additives (see Annex) for the Standard for Creams and Prepared Creams based on the modifications suggested in CX/MMP 06/7/12 as well as all government comments relating to the item⁶.

10. The additives are grouped in functional classes that are listed in a table in section 4, Food Additives, of the Standard for Creams and Prepared Creams.

11. A number of entries have been corrected to align with the General Standard for Food Additives. The changes include the following:

- Some additive names and functions have been amended to align with the International Numbering System (CAC/GL 36);
- “i” numbers are included for clarity;
- Additives and maximum levels are grouped as appropriate where group ADIs exist.

III. GOVERNMENT COMMENTS

12. A number of comments were submitted in response to the proposals in CX/MMP 06/7/12.

13. India and Thailand accepted the proposals, subject to appropriate justification and endorsement. Technological justifications are given in CX/MMP 06/7/12.

14. The European Community proposed amendments to levels of food additives permitted in certain types of creams and cream analogues. However CCMMP decided that the scope of the project should remain limited to the list of additives. An amendment to the table of product categories and additive functional classes would need to be proposed as a separate project. Cream analogues are outside the scope of Standard A-9.

15. Kenya requested technical justification for the proposed levels of use of additives INS nos. 472e, 473, and 339 to 452.

16. In creams additive INS 472e acts both as a stabilizing agent and as foaming agent. It is used in particular to manufacture pasteurised and liquid creams generally used in cooking preparations (sauces, dressings, and similar foods). This additive has the particular ability to stabilize the proteins during cooking and to protect them against the acidity of the other ingredients. It is widely used by the cream manufacturers and the typical level of use is 5000 mg/kg.

17. Additive INS 473 is an emulsifier, which also presents a good functionality of stabilization of emulsions and acts as a foaming agent in products such as sterilised creams and sterilised creams with a low level of fat. The typical level of use is 5000 mg/kg.

18. For the additives INS Nos. 339 to 452 (the phosphates) the value of 2000 mg/kg (expressed as P₂O₅) is mentioned in the standard currently, whereas the value of 5000 mg/kg is proposed. (Note that the value 5000 mg/kg expressed as P₂O₅ is equal to 1100 mg/kg expressed as phosphorus.) The value of 2000 g/kg is considered as too low to achieve the desired results in creams and prepared creams and should be replaced by 5000 g/kg.

⁶ CX/MMP 06/7/12 Add.1 (Comments submitted by India and Thailand); CRD 8 (Comments submitted by Kenya); CRD 11 (Comments submitted by the European Community)

IV. RECOMMENDATIONS

19. It is recommended that CCMMP:

- Agree to the proposed draft amendment to the list of additives of the Codex Standard for Creams and Prepared Creams as set out in the Annex.
- Ask CCFA to list INS 325 Sodium lactate and INS 516 Calcium sulphate as stabilizers, and INS 508 Potassium chloride and 509 INS Calcium chloride as thickeners, in the International Numbering System.

Annex

Proposed draft amendment to the list of additives of the Codex Standard for Creams and Prepared Creams, Codex Stan A-9-1976, section 4, Food Additives.

INS No	Name of Additive	Maximum Level	Notes
Stabilizers			
170(i)	Calcium carbonate	Limited by GMP	1
170(ii)	Calcium hydrogen carbonate	Limited by GMP	
325	Sodium lactate	Limited by GMP	2
331(i)	Sodium dihydrogen citrate	Limited by GMP	3
331(iii)	Trisodium citrate	Limited by GMP	3
332(i),	Potassium dihydrogen citrate	Limited by GMP	4
332(ii)	Tripotassium citrate	Limited by GMP	4
414	Gum arabic (acacia gum)	Limited by GMP	5
472e	Diacetyltartaric and fatty acid esters of glycerol	5000 mg/kg	6
516	Calcium sulphate	Limited by GMP	2
339(i)	Monosodium orthophosphate	2-5 g/kg-5000 mg/kg, singly or in combination, expressed as P ₂ O ₅	7
339(ii)	Disodium orthophosphate		
339(iii)	Trisodium orthophosphate		
340(i)	Monopotassium phosphate		
340(ii)	Dipotassium phosphate		
340(iii)	Tripotassium phosphate		
341(i)	Monocalcium phosphate		
341(ii)	Dicalcium phosphate		
341(iii)	Tricalcium phosphate		
450(i) ,	Disodium diphosphate		
450(ii)	Trisodium diphosphate		
450(iii)	Tetrasodium diphosphate		
450(v)	Tetrapotassium diphosphate		
450(vi)	Dicalcium diphosphate		
450(vii)	Calcium dihydrogen diphosphate		
451(i),	Pentasodium Triphosphate		
451(ii)	Pentapotassium Triphosphate		
452(i)	Sodium polyphosphate		
452(ii)	Potassium polyphosphate		
452(iii)	Sodium calcium polyphosphate		
452(iv),	Ammonium polyphosphate		
452(v)	Sodium potassium triplyphosphate		
Acidity Regulators			
270	Lactic acid (L, D, and DL-)	Limited by GMP	
326	Potassium lactate	Limited by GMP	8

327	Calcium lactate	Limited by GMP	8
330	Citric acid	Limited by GMP	
333	Calcium citrates	Limited by GMP	8
500(i)	Sodium carbonate	Limited by GMP	9
500(ii)	Sodium hydrogen carbonate	Limited by GMP	
500(iii)	Sodium sesquicarbonate	Limited by GMP	
501(i)	Potassium carbonate	Limited by GMP	10
501(ii)	Potassium hydrogen carbonate	Limited by GMP	
Thickeners			
400	Alginic acid	Limited by GMP	
401	Sodium alginate	Limited by GMP	
402	Potassium alginate	Limited by GMP	
403	Ammonium alginate	Limited by GMP	
404	Calcium alginate	Limited by GMP	
405	Propylene glycol alginate	Limited by GMP-5000 mg/kg	7
406	Agar	Limited by GMP	
407	Carrageenan and its Na, K, NH ₄ , Ca and Mg salts (includes furcellaran)	Limited by GMP	11
410	Carob bean gum	Limited by GMP	
412	Guar gum	Limited by GMP	
414	Gum arabic (acacia gum)	Limited by GMP	11
415	Xanthan gum	Limited by GMP	
418	Gellan gum	Limited by GMP	
440	Pectins	Limited by GMP	
460(i)	Microcrystalline cellulose	Limited by GMP	12
460(ii)	Powdered cellulose	Limited by GMP	
461	Methyl cellulose	Limited by GMP	
463	Hydroxypropyl cellulose	Limited by GMP	
464	Hydroxypropyl methyl cellulose	Limited by GMP	
465	Methyl ethyl cellulose	Limited by GMP	
466	Sodium carboxymethyl cellulose	Limited by GMP	
508	Potassium chloride	Limited by GMP	13
509	Calcium chloride	Limited by GMP	13
1410	Monostarch phosphate	Limited by GMP	
1412	Distarch phosphate	Limited by GMP	
1413	Phosphated distarch phosphate	Limited by GMP	
1414	Acetylated distarch phosphate	Limited by GMP	
1420	Starch acetate	Limited by GMP	
1422	Acetylated distarch adipate	Limited by GMP	
1440	Hydroxypropyl starch	Limited by GMP	

1442	Hydroxypropyl distarch phosphate	Limited by GMP	
1450	Starch sodium octenyl succinate	Limited by GMP	
Emulsifiers			
322	Lecithins	Limited by GMP	14
432	Polyoxyethylene (20) sorbitan monolaurate	1000 mg/kg	14
433	Polyoxyethylene (20) sorbitan monooleate	1000 mg/kg	14
434	Polyoxyethylene (20) sorbitan monopalmitate	1000 mg/kg	14
435	Polyoxyethylene (20) sorbitan monostearate	1000 mg/kg	14
436	Polyoxyethylene (20) sorbitan tristearate	1000 mg/kg	14
471	Mono- and diglycerides of fatty acids	Limited by GMP	14
472a	Acetic and fatty acid esters of glycerol	Limited by GMP	14
472b	Lactic and fatty acid esters of glycerol	Limited by GMP	14
472c	Citric and fatty acid esters of glycerol	Limited by GMP	14
473	Sucrose esters of fatty acids	5000 mg/kg	6
475	Polyglycerol esters of fatty acids	6000 mg/kg	6
491	Sorbitan monostearate	5000 mg/kg, singly or in combination	6, 15
492	Sorbitan tristearate		
494	Sorbitan monooleate		
Packing gases			
For use only in whipped creams (including creams packed under pressure)			
290	Carbon dioxide	Limited by GMP	16
941	Nitrogen	Limited by GMP	16
Propellant			
For use only in whipped creams (including creams packed under pressure)			
942	Nitrous oxide	Limited by GMP	17

Notes

- 1 Listed in A-9 as calcium carbonates. However INS Nos. 170(i) and 170(ii) have separate ADIs.
- 2 Not listed as a stabilizer in CAC/GL 36.
- 3 Listed in A-9 as sodium citrates, covered by the group ADI for citric acid and bases.
- 4 Listed in A-9 as potassium citrates, covered by the group ADI for citric acid and bases.
- 5 Already listed in A-9 as a thickener. A second entry in the list is not needed.
- 6 A new additive proposed in CX/MMP 06/7/12.
- 7 An amended level proposed in CX/MMP 06/7/12. (Additive INS 405 is omitted in the English version of A-9.)
- 8 Listed in A-9 as a stabilizer, but in CAC/GL 36 as an acidity regulator.
- 9 Listed in A-9 as sodium carbonates. However INS Nos. 500(i), (ii), and (iii) have separate ADIs.
- 10 Listed in A-9 as potassium carbonates. However INS Nos. 501(i), (ii), and (iii) have separate ADIs.

- 11 Amended name to align with CAC/GL 36.
- 12 Listed in A-9 as cellulose. However INS Nos. 460 (i) and (ii) have separate ADIs.
- 13 Not listed as a thickener in CAC/GL 36.
- 14 Not a thickener.
- 15 Sorbitan esters of fatty acids (INS Nos. 491, 492 and 494) have a group ADI, as the sum of the sorbitan esters of lauric, oleic, palmitic and stearic acid.
- 16 Not listed as a propellant in CAC/GL 36.
- 17 Not listed as a packing gas in CAC/GL 36.