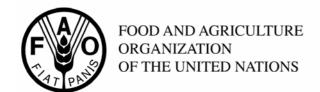
# codex alimentarius commission





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Agenda Item 4(c)

CX/MMP 04/6/6 January 2004

# JOINT FAO/WHO FOOD STANDARDS PROGRAMME

#### CODEX COMMITTEE ON MILK AND MILK PRODUCTS

**Sixth Session** 

Auckland, New Zealand, 26 – 30 April 2004

## PROPOSED DRAFT REVISED STANDARD FOR DAIRY SPREADS

(Prepared by the European Commission with the assistance of France, Ireland, Germany, New Zealand, Switzerland, United Kingdom)

Governments and international organizations wishing to submit comments at Step 3 on the "Proposed draft Standard for Dairy Spreads" (see Annexe) are invited to do so <u>no</u> <u>later than 19 March 2004</u> 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 4 463 2583 or E-mail: daniel.herd@nzfsa.govt.nz), with a copy to the Secretary, Codex Alimentarius Commission, Joint FAO/WHO Food Standards Programme, Via delle Terme di Caracalla, 00100 Rome, Italy (Fax No + 39.06.5705.4593; E-mail: codex@fao.org).

At the 5<sup>th</sup> Session of the Codex Committee on Milk and Milk Products (Wellington, 8-12 April 2002) the Committee agreed to return the Proposed Draft Revised Standard for Diary Spreads back to Step 2 for revision by a drafting Group. Furthermore, it was agreed that the Group is led by the European Commission with the assistance of Argentina, France, Germany, Ireland, Italy, New Zealand, Switzerland and the United Kingdom (paragraph 99 in Alinorm 03/11).

A "revised" text of the Proposed Draft Standard for Dairy Spreads, which has been redrafted by the European Commission, was sent to the Drafting Group Members with a request for their observations. The European Commission received comments from France, Ireland, Germany, New Zealand, Switzerland and the United Kingdom. Ireland was in agreement with the proposed text.

Many comments received are now incorporated in the Proposed Draft Standard for Dairy Spreads. As there were diverging and/or opposite comments from different Drafting Group members, not all of them could be accommodated.

## PROPOSED DRAFT REVISED STANDARD FOR DAIRY SPREADS

(at Step 3)

# 1. SCOPE

This Standard applies to dairy spreads with a milk-fat content of less than 80% and not less than 10% intended for human consumption. This Standard shall apply to products which remain solid at a temperature of 20 °C, and which are suitable for use as spreads.

## 2. DESCRIPTION

Products in the form of a solid, malleable emulsion, principally of the water-in-oil type, derived exclusively from milk and/or certain milk products, for which the milk-fat is the essential constituent of value. However, other substances necessary for their manufacture may be added, provided those substances are not used for the purpose of replacing, either in whole or in part, any milk constituents.

# 3. ESSENTIAL COMPOSITION AND QUALITY FACTORS

## 3.1. Raw materials

Milk and/or products obtained from milk

# 3.2 Permitted Ingredients

- Sodium chloride and food grade salt
- Starter cultures of harmless lactic acid and/or flavour producing bacteria
- Potable water
- [Vitamins, in accordance with the Codex General Principles for the Addition of Essential Nutrients to Foods (CAC/GL 09-1987]\*
- Gelatine and starches

These substances can be used in the same function as stabilizers and thickeners, provided they are added only in amounts functionally necessary as governed by Good Manufacturing Practice taking into account any use of the stabilizers/thickeners listed in section 4

- Sugar
- Mono-, di-, oligo- and polysaccharides (including inulin) and malto-dextrins.

[\*Where allowed in accordance with the General Principles, maximum and minimum levels for vitamins A, D and other vitamins, where appropriate, should be laid down by national legislation in accordance with the needs of each individual country including, where appropriate, the prohibition of the use of particular vitamins.]

## 3.3 Composition - The final draft shall include only one of these two options:

# **<u>First option</u>**: (the option preferred by European Commission)

## **3.3.1** Three-quarter-fat butter

The product with a milk-fat content of not less than 60 % but not more than 62 %

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# **3.3.2** Half-fat butter

The product with a milk-fat content of not less than 39 % but not more than 41 %

# **3.3.3** Dairy spread X % milk-fat

The product with the following milk-fat contents:

- more than 10 % but less than 39 %,
- more than 41 % but less than 60 %,
- more than 62 % but less than 80 %

# Second option: (a compromise option)

Dairy spreads X% milk-fat <sup>1</sup> < 80%

The milk-fat content must be at least two-thirds of the dry matter excluding salt.

## 4. FOOD ADDITIVES

Only those additive classes indicated in the table below may be used for the product categories specified. Within each additive class, and where permitted according to the table, only those individual additives listed may be used and only within the limits specified.

	Fat content		
Additive class:	60% to less than 80%	39% to less than 60%	10% to less than 39%
Colours	X	X	X
Acidity regulators	X	X	X
Emulsifiers	-	X	X
Preservatives	-	X	X
Thickeners and stabilizers	-	X	X
Antioxidants	-	X	X
Antioxidant synergists	-	X	X
Antifoaming agents	-	-	X
Flavour enhancers	-	-	X
Natural flavours	-	-	X
Miscellaneous	-	-	X

X = technologically justified function.

- = no technologically justified function

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<sup>&</sup>lt;sup>1</sup> The terms "three-quarter-fat butter" and "half-fat butter" may, in some cases, be used in the name of the food as provided for in section 7.1.

INS No.	Name of Food Additive Colours	Maximum level	
	For all products:		
160a(i)	160a(i) β-Carotene (synthetic)	25mg/kg	
160a(ii)	Carotenes (natural extracts)	600 mg/kg	
160b	Annatto extracts	10 mg/kg, expressed on bixin/norbixin basis	
1000	Acidity Regulators	10 mg/kg, expressed on olam/norolam basis	
	For all products		
339	Sodium orthophosphates	2 g/kg	
500(i)	Sodium carbonate	- 8-16	
500(ii)	Sodium hydrogen carbonate		
524	Sodium hydroxide	Limited by GMP	
526	Calcium hydroxide		
	Additionally, for products with less than 39% fat		
260	Acetic acid		
261	Potassium acetate		
262 (i)	Sodium acetate		
263	Calcium acetate		
270	Lactic acid (L-, D- and DL-)		
325	Sodium lactate		
326	Potassium lactate		
327	Calcium lactate		
330	Citric acid		
331	Sodium citrates		
331 (i)	Sodium dihydrogen citrate	Limited by GMP	
331 (iii)	Trisodium citrate		
332	Potassium citrate		
333	Calcium citrate		
334	Tartaric acid		
335	Sodium tartrates		
335 (i)	Monosodium tartrate		
335 (ii)	Disodium tartrate		
336	Potassium tartrate		
337	Sodium potassium tartrate		
338	Orthophosphoric acid		
339	Sodium orthophosphates	5 ~/l-~	
340	Potassium phosphates	5 g/kg	
341	Calcium orthophosphate		
	Emulsifiers		
	For products with less than 60% fat		
322	Lecithins	Limited by GMP	
	Polyoxyethylene (20) sorbitan:		
432	Monolaurate		
433	Mono-oleate	10 g/kg singly or in combination for bakin	
434	Monopalmitate	purposes only	
435	Monostearate		
436	Tristearate		
452(i)	Sodium polyphosphate	5 g/kg	
452(ii)	Potassium polyphosphate		
471	Mono- and di-glycerides of fatty acids	Limited by GMP	
472(a)	Acetic and fatty acid esters of glycerol		

INS No.	Name of Food Additive Colours	Maximum level
	For all products:	
160a(i)	160a(i) β-Carotene (synthetic)	25mg/kg
160a(ii)	Carotenes (natural extracts)	600 mg/kg
160b	Annatto extracts	10 mg/kg, expressed on bixin/norbixin basis
	Acidity Regulators	
	For all products	
339	Sodium orthophosphates	2 g/kg
500(i)	Sodium carbonate	
500(ii)	Sodium hydrogen carbonate	Limited by GMP
524	Sodium hydroxide	Ellinica by Givii
526	Calcium hydroxide	
472(b)	Lactic and fatty acid esters of glycerol	
472(c)	Citric and fatty acid esters of glycerol	
472(d)	Tartaric acid esters of mono- and di-glycerides of	
	fatty acids	
472(e)	Diacetyltartaric and fatty acid esters of glycerol	
472(f)	Mixed tartaric, acetic and fatty acid esters of	
	glycerol	
473	Sucrose esters of fatty acids	10 g/kg for baking purposes only
474	Sucroglycerides	
475	Polyglycerol esters of fatty acids	5 g/kg
477	Propylene glycol esters of fatty acids	10 g/kg for baking purposes only
481	Sodium lactylates	
481 (i)	Sodium stearoyl lactylate	10 g/kg singly or in combination
482	Calcium lactylates	10 g/kg singly of in combination
482 (i)	Calcium stearoyl lactylate	
491	Sorbitan monostearate	
492	Sorbitan tristearate	
493	Sorbitan monolaurate	10 g/kg singly or in combination
494	Sorbitan monooleate	
495	Sorbitan monopalmitate	
<b>_</b>	Additionally, for products with less than 39% fat	
476	Polyglycerol esters of interesterified riconoleic	4 g/kg
	acid	
	Preservatives	
	For products with less than 60% fat	
200	Sorbic acid	2,000 mg/kg singly or in combination (as
202	Potassium sorbate	sorbic acid) for products with a fat content
203	Calcium sorbate	of less than 60%
	Thickeners and stabilizers	
Γ	For products with less than 60% fat	
339	Sodium orthophosphates	5 g/kg
400	Alginic acid	Limited by GMP
401	Sodium alginate	
402	Potassium alginate	
403	Ammonium alginate	
404	Calcium alginate	
405	Propylene glycol alginate	

INS No.	Name of Food Additive Colours	Maximum level
	For all products:	
160a(i)	160a(i) β-Carotene (synthetic)	25mg/kg
160a(ii)	Carotenes (natural extracts)	600 mg/kg
160b	Annatto extracts	10 mg/kg, expressed on bixin/norbixin basis
	Acidity Regulators	<i>y y y y y y y y y y</i>
	For all products	
339	Sodium orthophosphates	2 g/kg
500(i)	Sodium carbonate	
500(ii)	Sodium hydrogen carbonate	Limited her CMD
524	Sodium hydroxide	Limited by GMP
526	Calcium hydroxide	
406	Agar	
407 (i)	Carrageenan and its Na, K, NH 4 salts (including furcellaran)	
410	Carob bean gum	
412	Guar Gum	
413	Tragacanth gum	
414	Gum arabic	
415	Xanthan gum	
418	Gellan gum	
422	Glycerol	
440	Pectins	
450 (i)	Disodium diphosphate	
460 (i)	Mycrocrystalline cellulose	
460 (ii)	Cellulose	
461	Methyl cellulose	
463	Hydroxypropyl cellulose	
464	Hydroxypropyl methyl cellulose	
465	Methyl ethyl cellulose	
466	Sodium carboxymethyl cellulose	
500 (i)	Sodium carbonates	
500(iii)	Sodium sesquicarbonate	
1.400	Modified starches, as follows	
1400	Dextrine roasted starch	
1401	Acid treated starch	
1402	Alkaline treated starch	
1403	Bleached starch	
1404	Oxidised starch	
1405	Enzyme treated starch	
1410 1412	Monostarch phosphate	
1412	Distarch phosphate Phosphated distarch phosphate	Limited by GMP
1413	Acetylated distarch phosphate	
1414	Starch acetate ester. Acetic anhydride	
1420	Startin actiate ester. Actile allinguritie	
1422	Acetylated distarch adipate	
1440	Hydroxypropyl starch	
1442	Hydroxypropyl distarch phosphate Starch acetate	
1112	Cellulose and microcrystalline cellulose	

INS No.	Name of Food Additive	Maximum level
	Colours	
160a(i)	For all products:	25mg/kg
160a(i) 160a(ii)	160a(i) β-Carotene (synthetic)  Carotenes (natural extracts)	25mg/kg 600 mg/kg
160a(11)	Annatto extracts	10 mg/kg, expressed on bixin/norbixin basis
1000		10 mg/kg, expressed on orxin/nororxin basis
	Acidity Regulators For all products	
339	Sodium orthophosphates	2 g/kg
500(i)	Sodium carbonate	8 8
500(ii)	Sodium hydrogen carbonate	T' ' II CMD
524	Sodium hydroxide	Limited by GMP
526	Calcium hydroxide	
	Antioxidants	,
	For products with less than 60% fat	
300	Ascorbic acid (L-)	
301	Sodium ascorbate	Limited has CMD
302	Calcium ascorbate	Limited by GMP
304	Ascorbyl palmitate	
305	Ascorbyl stearate	500 mg/kg
306	Mixed tocopherols concentrate	Limited by CMD
307	Alpha-tocopherol	Limited by GMP
	Flavour enhancers	
	For products with less than 39% fat	
508	Potassium chloride	
509	Calcium chloride	Limited by GMP
510	Ammonium chloride	Limited by Givii
511	Magnesium chloride	
620	Glutamic acid	
621	Monosodium glutamate	
622	Monopotassium glutamate	10 g/kg singly or in combination (as
623	Calcium diglutamate	glutamic acid)
624	Monoammonium glutamate	
625	Magnesium diglutamate	
626	Guanylic acid	
627	Sodium guanylate	500 mg/kg singly or in combination
628	Potassium guanylate	(expressed as guanylic acid)
629	Calcium guanylate	
630	Inosinic acid	
	Natural flavours	
	For products with less than 39% fat	T
	Natural flavours and their identical synthetic	
	equivalents and other synthetic flavours, except	Limited by GMP
	those which are known to present a toxic hazard	
	Miscellaneous	
420	For products with less than 39% fat	Limited by CMP
420	Sorbitol and sorbitol syrup	Limited by GMP
421	Mannitol	
953	Isomalt	
965	Maltitol	1

INS No.	Name of Food Additive	Maximum level
	Colours	
	For all products:	
160a(i)	160a(i) β-Carotene (synthetic)	25mg/kg
160a(ii)	Carotenes (natural extracts)	600 mg/kg
160b	Annatto extracts	10 mg/kg, expressed on bixin/norbixin basis
	Acidity Regulators	
	For all products	
339	Sodium orthophosphates	2 g/kg
500(i)	Sodium carbonate	
500(ii)	Sodium hydrogen carbonate	Limited by GMP
524	Sodium hydroxide	Limited by Givir
526	Calcium hydroxide	
966	Lactitol	
967	Xylitol	
290	Carbon dioxide	
941	Nitrogen	Limited by GMP
942	Nitrous oxide	

# 5. CONTAMINANTS

## 5.1 Heavy Metals

The products covered by this Standard shall comply with the maximum limits established by the Codex Alimentarius Commission.

# **5.2** Pesticide Residues

The products covered by this Standard shall comply with the maximum residue limits established by the Codex Alimentarius Commission.

# 6. HYGIENE

- **6.1** It is recommended that the products covered by the provisions of this Standard be prepared and handled in accordance with the appropriate sections of the Recommended International Code of Practice General Principles of Food Hygiene (CAC/RCP 1-1969, Rev. 3 1997), and other relevant Codex texts such as Codes of Hygienic Practice and Codes of Practice.
- **6.2** It is important that control measures or a combination of control measures are applied at both primary production and processing level to minimise or prevent the microbiological, chemical or physical contamination of milk. These should be selected and applied to achieve the appropriate level of public health protection.
- **6.3** The products should comply with any microbiological criteria established in accordance with the Principles for the Establishment and Application of Microbiological Criteria for Foods (CAC/GL 21-1997).

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#### 7. LABELLING

In addition to provisions of the Codex General Standard for the Labelling of Pre-packaged Foods and the General Standard for the Use of Dairy Terms, the following information must be indicated in the labelling and presentation:

- (a) the sales description as defined in section 3.3;
- (b) the total percentage fat content by weight at the time of production;

# 7.1 Name of the food

**7.1.1** The name of the food to be declared on the label shall be as specified in section 3.3

# 7.1.2 If in section 3.3 the option 2 is retained the draft should include the following paragraph:

Provided that the terms "three-quarter-fat butter" and "half-fat butter" are acceptable in the country of retail sale, these names may be used for the products with the following milk-fat contents:

- Three-quarter-fat butter for products with a milk-fat content of not less than 60 % but not more than 62 %
- Half-fat butter for products with a milk-fat content of not less than 39 % but not more than 41 %

## **7.1.3** In addition:

- (a) the term 'reduced-fat' may be used for products referred to in section 3.3 with a milk-fat content of more than 41 % but not more than 62 %;
- (b) the terms 'low-fat' or 'light' may be used for products referred to in section 3.3 with a milk-fat content of 41 % or less.

The term 'reduced-fat' and the terms 'low-fat' or 'light' may, however, replace respectively the terms 'three-quarter-fat' or 'half-fat'.

## 7.2 Declaration of milk fat content

7.2.1 The product shall be labelled to indicate average milk-fat content by mass in a manner found acceptable in the country of sale.

# 7.3 Labelling of Non-Retail Containers

Information on the above labelling requirements shall be given either on the container or in accompanying documents, except that the name of the food, lot identification and the name and address of the manufacturer or packer shall appear on the container.

However, lot identification and the name and address of the manufacturer or packer may be replaced by an identification mark, provided that such a mark is clearly linked with the accompanying documents.

# 8. METHODS OF SAMPLING AND ANALYSIS

See Codex Alimentarius, Volume 13.

**8.1** The measured fat content shall not deviate by more than two percentage points from the declared fat content.