

codex alimentarius commission



FOOD AND AGRICULTURE
ORGANIZATION
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Agenda Item 7

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JOINT FAO/WHO FOOD STANDARDS PROGRAMME

CODEX COMMITTEE ON NUTRITION AND FOODS FOR SPECIAL DIETARY USES **Twenty-second Session** **Berlin, Germany, 19-23 June 2000**

DRAFT REVISED STANDARD FOR PROCESSED CEREAL-BASED FOODS **FOR INFANTS AND YOUNG CHILDREN**

THE USE OF ADDITIVES IN PROCESSED CEREAL-BASED FOODS FOR INFANTS **AND YOUNG CHILDREN**

Prepared by the Netherlands, Canada, China, France, Germany, Romania, Spain, Switzerland, United Kingdom, the United States of America (USA), Uruguay, Slovakia, EC, and ISDI

Since the present standard on processed cereal-based foods for infants and young children (Codex stan 74-1991) came into effect, there has been a tremendous product development. This means that the present paragraphs on additives do not reflect the situation on the market any more.

Regarding the lay-out of the paragraphs in the annex it can be noted that the additives which are part of the present paragraphs on additives are presented in the annexes in regular characters. Following the room documents of the last meeting of the Committee and the request of several delegations new additives have been inserted in italics. The comments of the working group regarding the use of specific additives are given in the annexes preceded by an asterisk. ISDI suggested a number of additives to be added to the paragraphs, these insertions are marked with two asterisks. The working group did not have the opportunity to comment these additions.

Besides the comments regarding specific additives the working group has the following comments of a more general nature.

1. The general view is that the use of additives in foodstuffs for young children should be as restricted as possible. The question is whether this should be achieved by limiting the absolute number of additives permitted in these foodgroups or whether the insertion of several additives with a comparable function is acceptable.
2. Many remarks concerned the units to be used in which the use of additives is expressed. Most members of the working group supported the use of mg/kg or mg/l of ready to use formula or babyfood. The presentation has been adapted to this suggestion.

3. The use of flavours, nature identical or artificial in infant food showed to be controversial and, more in particular the acceptable amount of ethyl vanillin was questioned.
4. Further information on the chemical nature, function and safety of malt carbohydrases is considered necessary.

ANNEX

**Proposed draft revised Standard for Processed Cereal-based foods
for infants and young children
(CODEX STAN 74-1991)**

Paragraph 4: Food additives, flavours and enzymes

		INS:	Per kg as consumed	Status/ remarks
4.1	Emulsifiers			
4.1.1	Lecithin	322	1.5 g * 10 g	ADI: n.l.
4.1.2	Mono- and diglycerides	471	1.5 g *5 g singly or in combination with 472a, b and c	ADI: n.l.
<i>new</i>	<i>Acetic acid esters of mono- and diglycerides</i>	<i>472a</i>	<i>5 g/kg singly or in combination with 472a, b and c</i>	<i>ADI: n.l.</i>
<i>new</i>	<i>Lactic acid esters of mono- and diglycerides</i>	<i>472b</i>	<i>5 g/kg singly or in combination with 472a, b and c</i>	<i>ADI: n.l.</i>
<i>new</i>	<i>Citric acid esters of mono- and diglycerides</i>	<i>472c</i>	<i>5 g/kg singly or in combination with 472a, b and c</i>	<i>ADI: n.l.</i>
**new 4..	Thickening agents			
**new	<i>Locust bean gum</i>	<i>410</i>	<i>10 g individually or in combination with 412, 414, 415, 440 20 g for gluten-free cereals, individually or in combination with 412, 414, 415, 440</i>	<i>ADI: n.s.</i>
**new	<i>Guar gum</i>	<i>412</i>	<i>10 g individually or in combination with 410, 414, 415, 440 20 g for gluten-free cereals, individually or in combination with 412, 414, 415, 440</i>	<i>ADI: n.s.</i>
**new	<i>Acacia gum (gum Arabic)</i>	<i>414</i>	<i>10 g individually or in combination with 410, 414, 415, 440 20 g for gluten-free cereals, individually or in combination with 412, 414, 415, 440</i>	<i>ADI: n.s.</i>

		INS:	Per kg as consumed	Status/ remarks
**new	<i>Xanthan gum</i>	415	10 g individually or in combination with 410, 414, 415, 440 20 g for gluten-free cereals, individually or in combination with 412, 414, 415, 440	ADI: n.s.
**new	<i>pectins</i>	440	10 g individually or in combination with 410, 414, 415, 440 20 g for gluten-free cereals, individually or in combination with 412, 414, 415, 440	ADI: n.s.
**new	<i>Oxidized starch</i>	1404	50 g	
**new	<i>Monostarch phosphate</i>	1410	50 g	
**new	<i>Distarch phosphate</i>	1412	50 g	
**new	<i>Phosphated distarch phosphate</i>	1413	50 g	ADI: n.s.
**new	<i>Acetylated distarch phosphate</i>	1414	50 g	ADI: n.s.
**new	<i>Acetylated starch</i>	1420	50 g	
**new	<i>Acetylated distarch adipate</i>	1422	50 g	
**new	<i>Starch sodium octenyl succinate</i>	1450	50 g	
4.2	PH Adjusting Agents			
**new	<i>Acetic acid</i>	260	GMP	ADI: n.l.
**new	<i>Potassium acetate</i>	261	GMP	ADI: n.l.
**new	<i>Sodium acetate</i>	262	GMP	ADI: n.l.
**new	<i>Calcium acetate</i>	263	GMP	ADI: n.l.
**new	<i>L(+) malic acid</i>	296	GMP	ADI: n.l.
**new	<i>L(+) sodium lactate</i>	325	GMP	ADI: n.l.
**new	<i>L(+) potassium lactate</i>	326	GMP	ADI: n.l.
**new	<i>L(+) calcium lactate</i>	327	GMP	ADI: n.l.
**new	<i>Hydrochloric acid</i>	507	GMP	ADI: n.l.
**new	<i>Sodium citrates</i>	331	GMP	ADI: n.l.
**new	<i>Potassium citrates</i>	332	GMP	ADI: n.s.
**new	<i>Sodium carbonate</i>	500i	GMP	ADI: n.l.
**new	<i>Sodium hydroxide</i>	524	GMP	ADI: n.l.
**new	<i>Potassium hydroxide</i>	525	GMP	ADI: n.l.
**new	<i>Calcium hydroxide</i>	526	GMP	ADI: n.l.
4.2.1	Sodium hydrogen carbonate	500ii	GMP, within limits for sodium *delete	ADI: n.s.

		INS:	Per kg as consumed	Status/ remarks
4.2.2	Potassium hydrogen carbonate	501ii	GMP *delete	ADI: n.s.
4.2.3	Calcium carbonate	170i	GMP	ADI: n.s.
4.2.4	L(+) Lactic acid	270	1.5 g *GMP	ADI: n.l.
4.2.5	Citric acid	330	2.5 g *GMP	ADI: n.l.
<i>new</i>	<i>Sodium phosphate</i>	<i>339iii</i>	<i>1 g/kg singly or in combination with 340 and 341 iii, expressed as P2O5</i>	<i>Mtdi 70 mg/kg b.w. day</i>
<i>new</i>	<i>Potassiumphosphate</i>	<i>340</i>	<i>1 g/kg singly or in combination with 340 and 341 iii, expressed as P2O5</i>	<i>Mtdi 70 mg/kg b.w. day</i>
<i>new</i>	<i>Calciumphosphate</i>	<i>341iii</i>	<i>1 g/kg singly or in combination with 340 and 341 iii, expressed as P2O5</i>	<i>Mtdi 70 mg/kg b.w. day</i>
4.3	Antioxidant			
4.3.1	Tocopherol mix	306b	300 mg/kg fat, singly or in combination	Group ADI: 0,15-2 mg
<i>new</i>	<i>Alpha-tocopherols</i> <i>Gamma-tocopherols</i> <i>Delta-tocopherols</i>	<i>307</i> <i>308</i> <i>309</i>	<i>*100 mg/kg in fat containing food singly or in combination (304 included)</i>	
4.3.3	L-Ascorbyl palmitate	304	200 mg/kg fat *100 mg/kg in fat containing food singly or in combination with tocopherols	ADI: 1,25 mg
4.3.4	L-Ascorbic acid and its sodium and potassium salts	300 301 303	50 mg, expressed as ascorbic acid, within the limits for sodium and potassium *20 mg/100 g	Group ADI: n.s.
<i>new</i>	<i>Calcium L-ascorbate</i>	<i>302</i>	<i>3 g/100 g</i> <i>*2 g/100 g</i> <i>*0,2 mg/100 g</i>	
4.4	Flavours			<i>An inventory is made of the use of flavours by CCFAC</i>
4.4.1	Vanilla extract		GMP	
4.4.2	Ethyl vanillin		7 mg/100 g *1 mg	ADI: 3 mg

		INS:	Per kg as consumed	Status/ remarks
4.4.3	Vanillin		7 mg/100 g	ADI: 10 mg
**new	<i>Natural fruits extracts</i>		<i>GMP</i>	
4.5	Enzymes			<i>Enzymes are not yet being dealt with in codex</i>
4.5.1	Malt carbohydrases		GMP	ADI: n.l.
4.6	Leavening agents			
4.6.1	Ammonium carbonate	503i	GMP	ADI: n.s.
4.6.2	Ammonium hydrogen carbonate	503ii	GMP	ADI: n.s.
4.7	Anti-caking agents			
<i>new</i>	<i>Siliciumdioxide</i>	<i>551</i>	<i>2 g/kg *0,2 g *for dry cereals</i>	<i>ADI: n.s.</i>
** new 4.8	Packaging gases			
**new	<i>Carbon dioxide</i>	<i>290</i>	<i>GMP</i>	
**new	<i>Argon</i>	<i>938</i>	<i>GMP</i>	
**new	<i>Helium</i>	<i>939</i>	<i>GMP</i>	
**new	<i>Nitrogen</i>	<i>941</i>	<i>GMP</i>	
**new	<i>Nitrous oxide</i>	<i>942</i>	<i>GMP</i>	
**new	<i>Oxygen</i>	<i>948</i>	<i>GMP</i>	