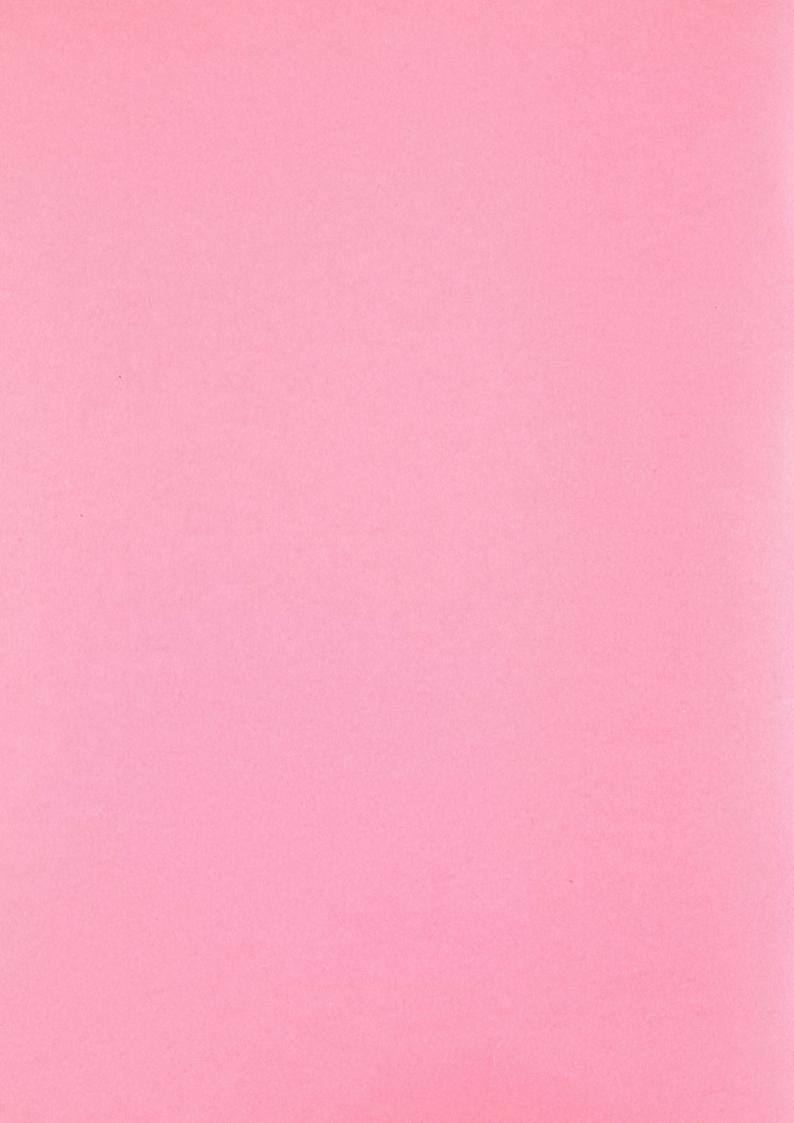
COMMISSION OF THE EUROPEAN COMMUNITIES

REPORTS

OF THE SCIENTIFIC COMMITTEE

FOR FOOD

Fifth series



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SUMMARY

	Page
Elements of information given to the Commission on the use of additives for which no Acceptable Daily Intake has been allocated • • • • • • • • • (16 March 1978)	7
Report of the Scientific Committee for Food on the provisions relating to additives and processing aids in the draft proposal for a Council Directive concerning the approximation of the laws of Member States relating to Fine Bakers!	
Wares, Rusks, Pastries and Biscuits (Opinion expressed 1st May 1978)	9



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ELEMENTS OF INFORMATION GIVEN TO THE COMMISSION ON THE USE OF ADDITIVES FOR WHICH NO ACCEPTABLE DAILY INTAKE HAS BEEN ALLOCATED

(16 March 1978)

The Scientific Committee for Food was asked by the Commission to state its attitude to the use of food additives for which it had been unable to allocate an Acceptable Daily Intake.

The Committee defined its position in the following way:

"The Committee emphasizes that where it does not lay down any acceptable daily intake for an additive which it considers acceptable, this is because it agrees that use of that additive does not raise any health problem".



REPORT OF THE SCIENTIFIC COMMITTEE FOR FOOD ON THE PROVISIONS RELATING TO ADDITIVES AND PROCESSING AIDS IN THE DRAFT PROPOSAL FOR A COUNCIL DIRECTIVE CONCERNING THE APPROXIMATION OF THE LAWS OF MEMBER STATES RELATING TO FINE BAKERS' WARES, RUSKS, PASTRIES AND BISCUITS

(Opinion expressed 1st May 1978)

TERMS OF REFERENCE

To give an opinion on the acceptability, from the point of view of the health of the consumer, of the additives and processing aids which have been requested for inclusion in a proposal for a Council Directive on "fine bakers' wares".

CONCLUSIONS

- 1. A substance is classed "acceptable" when the available toxicological data is adequate and when the potential daily intake of the substance from "fine bakers' wares" is not too large a proportion of the ADI. This classification does not necessarily imply that the Committee endorses the levels of use submitted nor the need for the wide variety of additives and processing aids.
- 2. The Committee accepts, on a provisional basis, ADIs established by JECFA.
- 3. The advice of the Committee applies to products not intended specifically for young infants and other critical population groups.
- 4. The advice of the Committee on individual substances (in the Annex) is given on the understanding that it may need to be revised as Community legislation is developed (e.g. by the elaboration of rules on conditions of use of food additives, or by the elaboration of comprehensive lists of other classes of food additives).

DISCUSSION

- 1. The Commission estimates that the future Directive will apply to some 5,000 products that may potentially be traded between the Member States. The Committee is informed that Member States will not be prevented from allowing the marketing, in their own countries, of other products that do not comply with every provision in the Proposed Directive. Such products will of course have to comply with national legislation and any requirements of other Community legislation, such as that on various food additives and on some food ingredients (e.g. cocoa, chocolate, honey and sugars).
- 2. The Committee considers that, in principle, it should only give a definitive opinion on a particular additive as part of a comprehensive assessment of that class of additive. However, many classes of additives and processing aids have not yet been studied in this way at Community level, although most of them, i.e. acids/bases/salts, solvents, flavours and enzymes, are due to be assessed in the near future. In these circumstances and at the request of the Commission the Committee is prepared to give a provisional opinion, on the understanding that this opinion may need to be revised as such Community legislation is developed or reviewed. It is to be understood that additives should always comply with an adequate specification.

The Committee recognizes that these products are not intended specifically for young infants or other critical population groups. It wishes to draw attention to the special needs of these critical groups for which the use and the levels of additives and processing aids listed in this directive may be unsuitable.

3. Until now, the Committee, in dealing with additives, has not usually made recommendations concerning their acceptability in specific foods or groups of foods. The Committee stresses the importance of implementing the provisions, which are in all Directives on food additives adopted at Community level, requiring that conditions of use of additives should be determined. Only if this is done can assessments be made of potential intakes of additives, and indications obtained on whether or not ADIs are likely to be exceeded. The Committee emphasizes that the allocation of maximum levels of additives where this is necessary, amongst the various foods with the objective of not exceeding the ADI must not be regarded as a purely arithmetical exercise, but as a matter involving scientific

- judgement. The Committee recommends that from the point of view of safety-in-use it should be associated with this work.
- 4. The Committee's approach to the assessment of the acceptability of an additive or processing aid in "fine bakers' wares" has been to establish for the purpose of this exercise, the acceptable daily intake (ADI) of each substance, and to ascertain that the potential daily intake of the substance from "fine bakers' wares" was not too large a proportion of this ADI.

ESTABLISHMENT OF ADIS

5. The Committee has set out its concept of ADI in its Report on Colours (Opinion, 27 June 1975). The ADI represents an estimate of the average daily intake of a substance, which, taken throughout the human life span, would not result in any obvious harm to human health. The Committee emphasizes that an ADI is intended as a guide and has a safety margin such that there need be no undue concern where, in the expert judgement of the Committee it is occasionally or slightly exceeded (see also paragraph 3).

For reasons given in paragraph 2 and below, the Committee has established its own ADIs for relatively few of the additives and processing aids in the Proposed Directive on Fine Bakers' Wares. For the remainder, the Committee, in order to expedite consideration of the Proposed Directive has been prepared to accept the latest assessments of JECFA* on a provisional basis.

- 6. Many of the additives and processing aids listed in the draft Proposed Directive are already controlled by Community legislation. Directives on colours, preservatives, antioxidants and emulsifiers, stabilisers, thickening and gelling agents have been in existence for some time and were based on advice from our predecessors, the Scientific Commission. Since the adoption of these Directives, ADIs have been established by this Committee for colours and propyl gallate; and this Committee has endorsed the approach of JECFA in its recommendations on pectin, guar gum, carrageenan (furcellaran), parahydroxybenzoates and propionates.
- 7. The draft Proposed Directive includes certain emulsifiers (sorbitan and polyoxyethylene sorbitan esters of fatty acids) which are on Annex II of the Directive on emulsifiers, stabilisers, thickening and gelling agents. Annex II substances are being reviewed by the Commission and the Committee, and the Committee was advised by the Commission that in the meantime it would be inappropriate to give advice on these substances.
- 8. For the remainder (and majority) of additives and processing aids the Committee was prepared to accept, on a provisional basis, ADIs established by JECFA where these were available. For those substances which did not have a JECFA assessment, the Committee made its own evaluation on the basis of information which was provided to it. These substances were L-cysteine, succinic acid, acid sodium aluminium phosphate, polyglycerol esters of dimerised fatty acids of soya bean oil, oxidatively polymerized soya bean oil, certain natural waxes and stearyl tartrate. These evaluations by the Committee relate only to the particular use listed in the Annex.
- 9. The draft Directive, as presented to the Committee, permits additives that are not specifically named "which are the residues of the treatment of the raw materials from which fine bakers' wares are made and where qualitative and quantitative presence conforms to the requirement of the legislation of the Member State in which such fine bakers' wares are to be sold". The Committee is unable to express any opinion on such un-named residues. Similarly the Committee notes that flavours are not listed individually thus it is unable to give advice on their acceptability.
- 10. In summary, therefore, for some additives and processing aids ADIs have previously been established by this Committee or have been established during this review of "fine bakers' wares". For the remainder of the named additives and processing aids the Committee has agreed to accept, provisionally, ADIs established by JECFA. The Committee could not establish ADIs for un-named additives and processing aids and was advised that it would be inappropriate at present for it to give advice on Annex II emulsifiers'.

^{*}Joint FAO/WHO Expert Committee on Food Additives

ESTIMATION OF POTENTIAL DAILY INTAKES

- ll. The potential daily intake of an additive or processing aid from its use in "fine bakers' wares" has been obtained by multiplying the average quantity of "fine bakers' wares" estimated to be consumed per person per day, by the maximum level of the additive or processing aid. The Committee was provided with some information on the consumption levels in the Community of products controlled by the Proposed Directive. The highest average consumption of such products in the Community appears to be about 45-50 g per person per day (assumed to be about 40 g on a dry matter basis) including about 20 g of "biscuits". This is no more than about 3 per cent by weight of the total average food in the diet (1500 g per person per day) and furthermore the Committee estimates this percentage is unlikely to rise to more than about 12 per cent for a consumer with a higher than average appetite for such items.
- 12. The maximum levels for the additives and processing aids in the Proposed Directive have been put forward by the Commission after discussion with Member States and Industry as the levels to be found in the product. In some cases the Committee requested and was provided with further information by the Commission. The Committee was aware that several approaches exist to the problem, each of which has its inherent difficulties. The Committee was also informed that in some Member States the government authorities had developed detailed procedures for estimating potential daily intake of additives from all foodstuffs. The Committee was of the opinion that were a similar exercise to be pursued by the Commission it would be found that lower levels of additives in "fine bakers' wares" might be proposed at Community level. The Committee is also aware of international cooperation in this area. The Committee emphasizes that its use of any of these levels for estimating potential daily intakes does not imply its endorsement of those levels nor of the need for the wide variety of additives and processing aids.
- 13. It should be stressed that it has only been possible to calculate potential daily intakes of additives from "fine bakers' wares" in an arbitrary manner. It is certain that not all additives will be present in any single product nor the maximum level found in each product.

ASSESSMENT OF TOXICOLOGICAL ACCEPTABILITY

- 14. The Committee's assessment of the toxicological acceptability of each of the additives and processing aids at the levels in the draft Proposed Directive on "fine bakers' wares" has been based on a comparison of the acceptable daily intake (paragraphs 5-10) with its potential daily intake (paragraphs 11-13) estimated from "fine bakers' wares". The Committee's assessments are in terms of "acceptable" or "not possible".
- 15. Taking into consideration the following points:
 - (a) fine bakers' wares represent, on average, some 3 per cent of the total diet;
 - (b) at most only about 50 per cent of the total diet would be likely to contain an additive;
 - (c) not all additives will be present in any single fine bakers' wares product nor the maximum level present in every product;

the Committee's opinion is that it would not be unreasonable to allow about 10 per cent of the ADI of a food additive to be allocated to intake from fine bakers' wares. Additives or processing aids that are within or do not greatly exceed this criterion are considered by the Committee to be toxicologically "acceptable" on a provisional basis.

16. The Committee's assessments "not possible" arise for one of two reasons. In some cases there is a lack of toxicological information. These assessments could be reviewed if data are submitted. In many other instances these assessments arise because, though toxicological information is available, the Committee considers that the intake of the additive or processing aid from "fine bakers' wares" could be too high in relation to the estimated ADI, bearing in mind the possibility of the widespread use of the additive or processing aid in other foods. The approach the Committee has had to adopt in order to come to a decision (paragraph 13) makes it likely that more precise information on the extent of the use of such additives in "fine bakers' wares" and in other foods will permit a revised toxicological assessment.

- 17. The Committee has already indicated (paragraphs 7-9) that it is unable to give advice on a number of additives and processing aids (e.g. flavours and Annex II emulsifiers). Additionally, the Committee has not reconsidered colours in this Review. Colouring matters were not listed individually, neither were any maximum limits supplied. The Committee was therefore unable to give any advice on the acceptability or otherwise of colouring matters other than that contained in its Reports on the subject. The Committee stresses that for certain colouring matters a low acceptable daily intake has been established. The use in fine bakers' wares of such colouring matters should be examined very carefully in order to avoid possible exclusion from other relevant uses. The Committee also draws attention to the need to observe the restrictions on use in foods recommended in its Reports.
- 18. The Committee's assessments are summarised in the Annex to this Report, which tabulates for each additive or processing aid the information used in reaching its decisions, together with comments where appropriate.

A. PRESERVATIVES

EEC Nº	Substance	Acceptable Intake ⁽²⁾ (mg/adult/day)	Maximum level in Fine Bakers' Wares to be proposed in Draft Directive (g/kg/dry matter)(1.1)	Average Daily Intake from Fine Bakers' Wares based on prev- ious column (mg/ adult/day)	Toxicological Assessment and Comments
E200 to E203	Sorbic acid and its sodium, potassium and calcium salts expressed as sorbic acid.		2(1•3)	40	ACCEPTABLE: assumes 20 g intake (dry matter) i.e. biscuits excluded.
	Sorboyl palmitate, expressed as sorbic acid.	ADI not fixed, in- sufficient data, not available commercially SCF/JECFA	2(1.2, 1.3)	40	NOT POSSIBLE: results of in vivo hydrolysis study required and results from short-term study desirable assumes 20 g intake of yeast raised products
E280 to E283	Propionic acid and its sodium, potassium and cal-cium salts, expressed as propionic acid.	Not specified. SCF(3)/JECFA	5(1•3)	100	ACCEPTABLE: (see comment on E200)
E210 to E213	Benzoic acid and its sod- ium, potassium and calcium salts, expressed as benzoid acid.	300 as total benzoate, expressed as benzoic acid. JECFA	0.5	20	ACCEPTABLE:
E214 to E219	Ethyl, propyl and methyl p-hydroxybenzoates and their sodium derivatives (expressed as acid).	600 as sum of esters: SCF(3)/JECFA	0.5 (as p-hydroxybenzoic acid)	24 (as ethyl p-hydroxy- benzoates)	ACCEPTABLE:
E220 to E224 and E226, E227	Sulphur dioxide, sodium sulphite, sodium hydrogen sulphite, sodium metabi—sulphite, potassium metabisulphite; calcium sulphite, calcium hydrogen sulphite.	42 as sulphur dioxide. JECFA	0.05 Separately or to- gether, calculated as sulphur dioxide.	2	ACCEPTABLE: but the Directive should emphasise that the sulphur dioxide is present only as a result of carry-over from food ingredients e.g. sugars, jams, dried fruits etc. (see also section B).

B. DOUGH TREATMENT AGENTS

EEC Nº	Substance	Acceptable Intake (2) (mg/adult/day)		Average Daily Intake from Fine Bakers' Wares based on previous column (mg/adult/day)	Toxicological Assessment and Comments
E220 E221 E223 E224 E226	Sulphur dioxide Sodium sulphite Sodium metabisulphite Potassium metabisulphite Calcium sulphite v)) 42 as sulphur dioxide) JECFA)(Although JECFA did not consider use as a dough treatment agent)	0.01 as sulphur dioxide	Negligible	ACCEPTABLE: Negligible residue of sulphur dioxide remains in the final product after the normal use level of about 0.2 g/kg flour, according to information received.
-	L-Cysteine (hydrochloride or hydrochloride mono- hydrate).	Not assessed by JECFA	Nil as cysteine in final product	Nil as added cysteine (residue after treat- ment is cystine)	ACCEPTABLE: on the basis of detailed toxicological information studied by the Committee. Committee was informed that residues after treatment with cysteine at 0.1 g/kg were negligible.
E300	L-Ascorbic acid	Acceptable at 0-200 mg/kg flour JECFA	Use level, 0.15 Residual level after baking, nil.	Nil	ACCEPTABLE: (see also Section C).

C. ANTIOXIDANTS

EEC Nº	Substance	Acceptable Intake (2) (mg/adult/day)	proposed in Draft	Average Daily Intake from Fine Bakers' Wares based on prev- ious column (mg/ adult/day)	Toxicological Assessment and Comments
1 -	L-ascorbic acid and its sodium and calcium salts	900 as total ascorbic acid from all sources JECFA	1	40	ACCEPTABLE:
E304	6-palmityl-L-ascorbic acid (ascorbyl palmitate)	75 (as sum of ascorbyl palmitate and ascorbyl stearate). JECFA	0.5 of fat content, singly or in combination	2 (assumes 10% fat content)	ACCEPTABLE:
E306 to E309	Tocopherol-rich extracts of natural origin, synthetic -tocopherol, synthetic -tocopherol, synthetic -tocopherol	120 total tocopherols expressed as d- tocopherol. JECFA			ACCEPTABLE:
E311, E312, E310 E320 E321	Octyl gallate, dodecyl gallate, and propyl gallate Butylated hydroxyanisole Butylated hydroxytoluene	12 as sum of gallates SCF(4))30 as sum of both)(temporary) JECFA	0•3	l separately or together, assuming about 10% fat conten	ACCEPTABLE:

D. ACIDS, BASES AND SALTS

EEC Nº	Substance	Acceptable Intake ⁽²⁾ (mg/adult/day)	Maximum level in Fine Bakers' Wares to be proposed in Draft Directive (g/kg dry matter	Average Daily Intake from Fine Bakers' Wares based on prev- ious column (mg/ adult/day)	Toxicological Assessment and Comments
E260 to E263 and sodium acetate	Acetic acid and its potas- sium, sodium and calcium salts	Not specified (sodium diacetate 900) JECFA	10 (20 in snack prod- ucts)	400	ACCEPTABLE:
	Lactic acid and its sodium, potassium and calcium salts		5	200	ACCEPTABLE:
E330 to E333	Citric acid and its sodium, potassium and calcium salts		15	600	ACCEPTABLE:
E334 to E336 E337	Tartaric acid and its sodium and potassium salts. Sodium potassium tartrate.	1800 as total L-tartaric acid from all sour- ces.	20	400	ACCEPTABLE: Widely used and present in food, therefore desirable to restrict potential intake to lowest value technologically possible. Committee informed that main use in Fine Bakers' Wares is as chemical raising agents (see comment on glucose delta lactone)
	Malic acid and its sodium, potassium and calcium salts expressed as malic acid		15	600	ACCEPTABLE:
-	Fumaric acid	360 JECFA	20	800	NOT POSSIBLE: Potential intake might be high in relation to ADI. Could be

eec nº	Substance	Acceptable Intake ⁽²⁾ (mg/adult/day)	Maximum level in Fine Bakers' Wares to be proposed in Draft Directive (g/kg dry matter)	Average Daily Intake from Fine Bakers' Wares based on prev- ious column (mg/ adult/day)	Toxicological Assessment and Comments
					considered for use in specific (named)applications
-	Calcium chloride	Not specified JECFA	5	20 (5)	ACCEPTABLE:
-	Sodium hydroxide	Not specified JECFA	0•5	2 (5)	ACCEPTABLE: requested for use on bretzels and also as a diluent for colours
-	Calcium hydroxide	Not specified JECFA	0.5	2 (5)	ACCEPTABLE: requested as whipping aid for egg albumen
- - -	Calcium sulphate Ammonium chloride Ammonium sulphate	Not specified Not assessed Not assessed JECFA	5	100	ACCEPTABLE: in context of the requested use as a yeast improver (assumes intake of 20 g yeast raised products)
-	Silicic acid and its calcium, sodium, aluminium and magnesium salts and their compounds.	Not specified (magnes- ium silicates, including talc) JECFA	0.2	8	ACCEPTABLE: requested as anti-caking/free flow agents
_	Magnesium oxide	Not specified JECFA	1	40	- ditto -
_	Magnesium, calcium and aluminium stearates	Not specified JECFA	1	40	- ditto -
-	Succinic acid	Not assessed	15	600	NOT POSSIBLE: Toxicological information on this substance required.

EEC Nº	Substance	Acceptable Intake (2) (mg/adult/day)	Maximum level in Fine Bakers' Wares to be proposed in Draft Directive (g/kg dry matter)	Average Daily Intake from Fine Bakers' Wares based on prev- ious column (mg/ adult/day)p	Toxicological Assessment and Comments
	Glucono-delta-lactone (D-glucono-1, 5-lactone)	3000 total gluconates, expressed as gluconic acid JECFA	20	400 (as chemical raising agent)	ACCEPTABLE: Committee informed that main use in food is as chemical raising agent in Fine Bakers' Wares (assumes 20 g intake of chemically raised products)
_	Acid aluminium sodium phosphate	600 (temporary) SCF	30	600 (165 as P)	NOT POSSIBLE: Potential might be high in relation to ADI. Could be considered for use in specific (named) applications.
E341 (a) E341 (b)	Mono calcium ortho-phosph- ate (ACP) dicalcium ortho- phosphate	4200 as total P from	20 (total)	400	ACCEPTABLE: (see comment on glucono-delta-lactone
E341 (c)	Tricalcium ortho phosphate	all sources JECFA	, ,	(106 as P)	ACCEPTABLE: (as an anti- caking agent)
E450	Acid sodium pyrophosphate (ASP)	4200 as total P from	20	400 (112 as P)	ACCEPTABLE: (see comment on glucono delta lactone)
	Sodium and potassium polyphosphates (other than ASP)		1	40 (12 as P)	ACCEPTABLE: in fruit fillings and decorations
-	Carbonic acid and its sod- ium, potassium, calcium and ammonium salts		20	400	ACCEPTABLE: (see comment on glucono-delta-lactone)
	Magnesium carbonate	JECFA			ACCEPTABLE: requested as anti-caking/free flow agent.

E. EMULSIFIERS, STABILISERS, THICKENERS & GELLING AGENTS

EEC N°	Substance	Acceptable Intake (2) (mg/adult/day)	Maximum level in Fine Bakers' Wares to be proposed in Draft Directive (g/kg dry matter)	Average Daily Intake from Fine Bakers' Wares based on prev- ious column (mg/ adult/day)	Toxicological Assessment and Comments
-	Modified starches	Mostly not specified JECFA - but see also SCF Report, certain modified starches restricted to 3.5% or 5% for infant food SCF(4)	300	12000	ACCEPTABLE: In accordance with SCF Report
E322	Lecithins	Not specified JECFA	30	1200	ACCEPTABLE:
E400 to E403	Alginic acid and its sodium, potassium, ammonium and calcium salts (6)	3000 as alginic acid JECFA	10	400	ACCEPTABLE:
E405	1,2-Propylene glycol alginate (6)	1500 JECFA	10	400 (100 as propylene glycol and 300 as alginic acid)	NOT POSSIBLE: More precise information required on total intake of propylene glycol
Е406	Agar (6)	Not specified JECFA	10	400	ACCEPTABLE:
E 407 E 408	Carrageenan (syn. (6) Carrageen) Furcellaran (6))4500 as sum of both SCF(8)/JECFA	10	400	ACCEPTABLE:
E410	Locust bean gum (syn carob gum) (6)	Not specified (temporar JECFA	y) 10	400	ACCEPTABLE:
E412	Guar gum (syn•guar flour) (6)	Not specified SCF(8)/JECFA	10	400	ACCEPTABLE:
E413		Not allocatable on data available JECFA	10	400	NOT POSSIBLE:

E. EMULSIFIERS, STABILISERS, THICKENERS & GELLING AGENTS - continued

eec n°	Substance	Acceptable Intake ⁽²⁾ (mg/adult/day)	Maximum level in Fine Bakers' Wares to be proposed in Draft Directive (g/kg dry matter)	Average Daily Intake from Fine Bakers' Wares based on prev- ious column (mg/ adult/day)	Toxicological Assessment and Comments
E414	Acacia (syn.gum arabic)(6)	Not specified JECFA	10	400	ACCEPTABLE:
E440	Pectins	Amidated 1500 (tempora- ry) Non-amidated; not specified SCF(8)/JECFA	30	1200	ACCEPTABLE: (non-amidated) NOT POSSIBLE: (amidated) More precise information needed on intake from Fine Bakers' Wares.
E460	Microcrystalline cellulose	Not specified (includes also powdered cellulose JECFA))	200	ACCEPTABLE:
E461 E463 E464 E465 E466	Methyl Cellulose Hydroxypropyl cellulose Hydroxypropyl methyl— cellulose Methylethylcellulose Carboxymethylcellulose (syn. sodium carboxy— methylcellulose) (7))) 1500 as sum of) cellulose derivatives)) JECFA	10		NOT POSSIBLE: More precise information needed on total intake from all foods.
E470	Sodium, potassium and calcium salts of fatty acids	Myristates, stearates and palmitates - not specified, as anti- caking agents JECFA	15 of flour in Dutch rusks; 5 dry matter other products	200	ACCEPTABLE:
E471	Mono-and di-glycerides of fatty acids	Not specified JECFA	30	1200	ACCEPTABLE:

EEC Nº	Substance	Acceptable Intake ⁽²⁾ (mg/adult/day)	Maximum level in Fine Bakers' Wares to be proposed in Draft Directive (g/kg dry matter)	Average Daily Intake from Fine Bakers' Wares based on prev- ious column (mg/ adult/day)	Toxicological Assessment and Comments
E472	Esters of mono and di- glycerides of food fatty acids with:		30	1200	
	(a) acetic acid(b) lactic acid(c) citric acid(d) tartaric acid)) Not specified) SCF/JECFA SCF			ACCEPTABLE: However, see note on E334 relating to use of tartaric acid.
	(e) diacetyltartaric acid (-) mixed acetic/tartaric	3000 SCF/JECFA Not specified			NOT POSSIBLE: More precise information needed on total intake from all food ACCEPTABLE: See note on
	acids	SCF/JECFA			E334 as above.
E475	Polyglycerol esters of fatty acids	1500 JECFA	10	400	NOT POSSIBLE: May be desirable to restrict use to specific (named) applications.
E477	Propylene glycol esters of fatty acids	1500 as propylene glycol JECFA	10	400 (90 as propylene glycol)	NOT POSSIBLE:
E481 E482	Sodium stearoyl 2—lactylate Calcium stearoyl 2—lactylat)1200 as sum of both e) JECFA	5	100	ACCEPTABLE: principal use yeast based products assumes intake of 20g yeast based products)
E483	Stearyl tartrate	1200 SCF	3	60	ACCEPTABLE: (see comment on E481/E482)
"Annex II"	Sorbitan monopalmitate, monostearate and tristearat Polyoxyethylene(20)Sorbitar monolaurate, monopalmitate monostearate, tristearate and mono-oleate				Review of Annex II Emulsifiers in progress

F. RELEASE AGENTS

EEC Nº	Substance	Acceptable Intake (2) (mg/adult/day)	Maximum level in Fine Bakers' Wares to be proposed in Draft Directive (g/kg dry matter)	Average Daily Intake from Fine Bakers' Wares based on prev- ious column (mg/ adult/day)	Toxicological Assessment and Comments
"Annex II" Emulsifier:	00,0	450 JECFA	0.12	5	ACCEPTABLE:
	Polyglycerol esters of dimerised fatty acids of soya bean oil.	Not assessed by JECFA	0.12	5	ACCEPTABLE:
	Oxidatively polymerised soya bean oil.	Not assessed by JECFA	0.04	2	ACCEPTABLE:
	Natural waxes of vegetable or animal origin: Reeswax, carnauba, spermacat Candellila wax	-	1	40	ACCEPTABLE: NOT POSSIBLE:
	Liquid paraffin (pharm- aceutical quality)	Not specified for food grade mineral oil and liquid petrolatum.	1	40	ACCEPTABLE:
	Edible oils and fats, including those esterified	Not assessed by JECFA	1	40	ACCEPTABLE: Esterified products to be limited to glycerides of edible fat-forming straight-chain fatty acids

22

G. SOLVENTS

<u> </u>		<u> </u>			
EEC Nº	Substance	Acceptable Intake ⁽²⁾ (mg/adult/day)	Maximum level in Fine Bakers' Wares to be proposed in Draft Directive (g/kg dry matter)	Average Daily Intake from Fine Bakers' Wares based on prev- ious column (mg/ adult/day)	Toxicological Assessment and Comments
-	Propylene glycol (1,2-propanediol)	1500 (to include con- tribution from esters) JECFA	20	800 (plus 190 from esters	NOT POSSIBLE: (see E405): Acceptable as diluent for colours, antioxidants, flavours with minimal residues.
-	Isopropyl alcohol	Temporary acceptance in accord with good manufacturing practice i.e.minimal residue in food. JECFA		400	NOT POSSIBLE: (see comment on propylene glycol)
E420	Sorbitol	Not specified JECFA	50	2000	ACCEPTABLE:
E421	Mannitol (D-)	3000 temporary JECFA	50	2000	NOT POSSIBLE:
E422	Glycerol	Not specified JECFA	50	2000	ACCEPTABLE:
H. CORRE	CTORS AND ENHANCERS OF FLAVO	JR			
_	Glutamic acid and its sodium and potassium salts	7200 total glutamate expressed as glutamic acid (but not for infants younger than 12 weeks). JECFA	5	200	ACCEPTABLE:
_	Guanylic acid and its sodium and potassium salts	Disodium (and calcium) guanylate - not specified JECFA	0•5	20	ACCEPTABLE:
-	Inosinic acid and its sod- ium and potassium salts	Disodium and calcium inosinate-not specifie JECFA	0•5 i	20	ACCEPTABLE:
	Maltol	ADI withdrawn JECFA	0•25	10	NOT POSSIBLE:
	Ethyl maltol	120 JECFA	0•25	10	ACCEPTABLE :

I. TECHNICAL ADJUVANTS

eec n°	Substance	Acceptable Intake (2) (mg/adult/day)	Maximum level of Fine Bakers' Wares to be proposed in Draft Directive (g/kg dry matter)	Average Daily Intake from Fine Bakers' Wares based on prev- ious column (mg/ adult/day)	Toxicological Assessment and Comments
	Enzymes (amylases, prot- eases, glucose oxidases, pentosanases, invertases)	JECFA list given "not specified" classifica- tion	0•2	8	JECFA list ACCEPTABLE:
E290	Carbon dioxide	Not assessed by JECFA		negligible	ACCEPTABLE:
-	Nitrogen	Not assessed by JECFA		negligible	ACCEPTABLE:
-	Nitrous oxide	Not assessed by JECFA	l vol N ₂ O to l vol cream	100 ml N ₂ 0	ACCEPTABLE: for requested use as propellent/whipping aid for cream

NOTES

- 1.1 The use of several of these preservatives in combination shall be authorised only in quantities such that the sum of the percentages to which these quantities correspond in relation to the authorised maximum content for each of them does not exceed the figure 100.
- 1.2 Solely for dough.
- 1.3 Not authorised in products with a water content of less than 8%.
- 2. Acceptable Intake = Acceptable Daily Intake X 60 (adult body weight taken as 60 kg) JECFA = ADI established by JECFA up to and including 21st Report. SCF = ADI established by Scientific Committee for Food.
- 3. Office for Official Publications of the European Communities (8801/7290).
- 4. Office for Official publications of the European Communities (8843/7525).
- 5. The intake has been considered to be 1/loth that of Fine Bakers' Wares in general.
- 6. E400-E414: 10 g/kg singly or in combination.
- 7. E460-E466: 10 g/kg singly or in combination.
- 8. In press.



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The Members are independent persons, highly qualified in the fields associated with medicine, nutrition, toxicology, biology, chemistry, or other similar disciplines.

The present series relates to opinions on the elements of information given to the Commission on the use of additives for which no Acceptable Daily Intake has been allocated and the provisions relating to additives and processing aids in the draft proposal for a Council Directive concerning the approximation of the laws of Member States relating to Fine Bakers' Wares, Rusks, Pastries and Biscuits.

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