

DIRECTIVE 98/72/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

of 15 October 1998

amending Directive 95/2/EC on food additives other than colours and sweeteners

THE EUROPEAN PARLIAMENT AND THE COUNCIL
OF THE EUROPEAN UNION,

HAVE ADOPTED THIS DIRECTIVE:

Having regard to the Treaty establishing the European Community, and in particular Article 100a thereof,

Article 1

Having regard to the proposal from the Commission ⁽¹⁾,

Directive 95/2/EC is hereby amended as follows:

Having regard to the opinion of the Economic and Social Committee ⁽²⁾,

1. Article 1(1) shall be replaced by the following:

Acting in accordance with the procedure referred to in Article 189b of the Treaty ⁽³⁾,

‘1. This Directive is a specific Directive forming a part of the comprehensive Directive, within the meaning of Article 3 of Directive 89/107/EEC, and applies to additives other than colours and sweeteners. It does not apply to enzymes other than those mentioned in the Annexes;’

Having regard to Council Directive 89/107/EEC of 21 December 1988 on the approximation of the laws of the Member States concerning food additives authorised for use in foodstuffs intended for human consumption ⁽⁴⁾, and in particular Article 3(2) thereof,

2. Article 2(1) shall be replaced by the following:

‘1. Only substances listed in Annexes I, III, IV and V may be used in foodstuffs for the purposes mentioned in Article 1(3) and Article 1(4);’

Whereas there have been technical developments in the field of food additives since the adoption of Directive 95/2/EC ⁽⁵⁾;

3. Article 2(2) shall be replaced by the following:

‘2. Food additives listed in Annex I are permitted in foodstuffs, for the purposes mentioned in Article 1(3) and Article 1(4), with the exception of those foodstuffs listed in Annex II, following the “*quantum satis*” principle;’

Whereas Directive 95/2/EC should be adapted to take account of these developments;

4. The fifth indent of Article 2(3)(a) shall be replaced by:

‘— pasteurised and sterilised (including UHT) milk (including plain, skimmed and semi-skimmed) and plain pasteurised cream;’

Whereas the Scientific Committee for Food, set up by Decision 74/234/EEC ⁽⁶⁾, was consulted before the adoption of provisions liable to have an effect on public health;

5. The eleventh indent of Article 2(3)(a) shall be replaced by:

‘— dry pasta, excluding gluten-free and/or pasta intended for hypoproteic diets, in accordance with Directive 89/398/EEC;’

Whereas specific provisions on thiabendazole have been laid down in Council Directive 95/38/EC of 17 July 1995 amending Annexes I and II to Directive 90/642/EEC on the fixing of maximum levels for pesticide residues in and on certain products of plant origin, including fruit and vegetables, and providing for the establishment of a list of maximum levels ⁽⁷⁾; whereas the entry on thiabendazole should now be repealed,

6. The tables of the Annexes shall be amended in accordance with the provisions contained in the Annex to this Directive.

Article 2

1. Member States shall, where necessary, amend their laws, regulations and administrative provisions in order to:

⁽¹⁾ OJ C 76, 11. 3. 1997, p. 34, and OJ C 77, 12. 3. 1998, p. 7.

⁽²⁾ OJ C 75, 10. 3. 1997, p. 1.

⁽³⁾ Opinion of the European Parliament of 23 October 1997 (OJ C 339, 10. 11. 1997, p. 1), Council common position of 23 March 1998 (OJ C 161, 27. 5. 1998, p. 29) and Decision of the European Parliament of 15 July 1998 (OJ C 292, 21. 9. 1998). Council Decision of 28 September 1998.

⁽⁴⁾ OJ L 40, 11. 2. 1989, p. 27. Directive as last amended by Directive 94/34/EC of the European Parliament and of the Council (OJ L 237, 10. 9. 1994, p. 1).

⁽⁵⁾ OJ L 61, 18. 3. 1995, p. 1. Directive as amended by Directive 96/85/EC (OJ L 86, 28. 3. 1997, p. 4).

⁽⁶⁾ OJ L 136, 20. 5. 1974, p. 1.

⁽⁷⁾ OJ L 197, 22. 8. 1995, p. 14.

- authorise trade in products conforming with this Directive, by 4 May 2000 at the latest,
- prohibit trade in products not conforming with this Directive from 4 November 2000. However, products placed on the market or labelled before that date which do not comply with the Directive may be marketed until stocks are exhausted.

They shall forthwith inform the Commission thereof.

When Member States adopt these measures, they shall contain a reference to this Directive or shall be accompanied by such reference on the occasion of their official publication. The methods of making such reference shall be laid down by Member States.

2. Member States shall communicate to the Commission the text of the main provisions of domestic law which they adopt in the field covered by this Directive.

Article 3

This Directive shall enter into force on the day of its publication in the *Official Journal of the European Communities*.

Article 4

This Directive is addressed to the Member States.

Done at Luxembourg, 15 October 1998.

For the European Parliament

The President

J.M. GIL-ROBLES

For the Council

The President

C. EINEM

ANNEX

1. In Annex I, the following additives shall be added:

'E 469	Enzymatically hydrolysed carboxy methyl cellulose
E 920	L-Cysteine (*)
E 1103	Invertase
E 1451	Acetylated oxidised starch

(*) May be used only as a flour treatment agent.'

2. In Annex II:

- (a) the list of additives and the maximum level for 'Jam, jellies and marmalades as defined in Directive 79/693/EEC and other similar fruit spreads including low-calorie products' shall be supplemented as follows:

	'E 471 Mono and diglycerides of fatty acids	<i>quantum satis</i>
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- (b) the table concerning 'Sterilised, pasteurised and UHT cream, low-calorie cream and pasteurised low-fat cream' shall be replaced by the following:

'Plain pasteurised cream	E 401 Sodium alginate	<i>quantum satis</i>
	E 402 Potassium alginate	
	E 407 Carrageenan	
	E 466 Sodium carboxy methyl cellulose	
	E 471 Mono- and diglycerides of fatty acids	

- (c) the designation 'Frozen and deep-frozen unprocessed fruit and vegetables' shall be amended as follows:

'Frozen and deep-frozen unprocessed fruit and vegetables; prepacked, refrigerated unprocessed fruit and vegetables ready for consumption and prepacked unprocessed and peeled potatoes.';

- (d) the following table shall be inserted after the table concerning 'Non-emulsified oils and fats of animal or vegetable origin':

'Non-emulsified oils and fats of animal or vegetable origin (except virgin oils and olive oils) specifically intended for cooking and/or frying purposes or for the preparation of gravy	E 270 Lactic acid	<i>quantum satis</i>
	E 300 Ascorbic acid	
	E 304 Fatty acid esters of ascorbic acid	
	E 306 Tocopherol-rich extract	
	E 307 Alpha-tocopherol	
	E 308 Gamma-tocopherol	
	E 309 Delta-tocopherol	
	E 322 Lecithins	30 g/l
	E 471 Mono- and diglycerides of fatty acids	10 g/l
	E 472c Citric acid esters of mono- and diglycerides of fatty acids	<i>quantum satis</i>
	E 330 Citric acid	
	E 331 Sodium citrates	
	E 332 Potassium citrates	
	E 333 Calcium citrates	

- (e) the list of additives and the maximum level for 'Mozzarella and whey cheese' shall be supplemented as follows:

	'E 260 Acetic acid	<i>quantum satis</i>
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- (f) the list of additives and the maximum level for 'Canned and bottled fruit and vegetables' shall be supplemented as follows:

	'E 296 Malic acid	<i>quantum satis</i>
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- (g) the list of additives and the maximum level for 'Gehakt' shall be supplemented as follows:

	'E 300 Ascorbic Acid E 301 Sodium ascorbate E 302 Calcium ascorbate	<i>quantum satis</i>
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- (h) the following table shall be added at the end of the Annex:

'Pineapple and passion fruit juices and nectars	E 440 Pectins	3 g/l
Sliced and grated ripened cheese	E 170 Calcium carbonates E 504 Magnesium carbonates E 509 Calcium chloride E 575 Glucono-delta-lactone E 460 Celluloses	<i>quantum satis</i>
Soured-cream butter	E 500 Sodium carbonates	<i>quantum satis</i>

3. In Annex III, Part A:

- (a) the maximum levels for 'Olives and olive-based preparations', 'Emulsified sauces with a fat content of 60 % or more' and 'Emulsified sauces with a fat content less than 60 %' shall be replaced by the following:

'Olives and olive-based preparations	1 000	500		1 000		
Emulsified sauces with a fat content of 60 % or more	1 000	500		1 000		
Emulsified sauces with a fat content less than 60 %	2 000	1 000		2 000'		

- (b) at the end of this part, the following table shall be added:

'Foodstuff	Maximum level (mg/kg or mg/l as appropriate)					
	Sa	Ba	PHB	Sa + Ba	Sa + PHB	Sa + Ba + PHB
... Mehu and Makeutettu ... Mehu	500	200				
Analogues of meat, fish, crustaceans and cephalopods and cheese based on protein	2 000					
Dulce de membrillo		1 000				

Foodstuff	Maximum level (mg/kg or mg/l as appropriate)					
	Sa	Ba	PHB	Sa + Ba	Sa + PHB	Sa + Ba + PHB
Marmelada				1 500		
Ostkaka	2 000					
Pasha	1 000					
Semmelknödelteig	2 000					
Cheese and cheese analogues (surface treatment only)	<i>quantum satis</i>					
Cooked red beet		2 000				
Collagen-based casings with a water activity greater than 0,6	<i>quantum satis</i>					

4. In Annex III, Part B:

(a) the presentation of the following foodstuffs and maximum levels:

'Crustaceans and cephalopods	
— fresh, frozen and deep-frozen	150 (l)
— crustaceans, <i>panaeidae solenceridae, aristeidae</i> family:	
— up to 80 units	150 (l)
— between 80 and 120 units	200 (l)
— over 120 units	300 (l)
— cooked	50 (l)

(l) In edible parts.'

shall be as follows:

'Crustaceans and cephalopods:	
— fresh, frozen and deep-frozen	150 (°)
— crustaceans, <i>panaeidae solenceridae, aristeidae</i> family:	
— up to 80 units	150 (°)
— between 80 and 120 units	200 (°)
— over 120 units	300 (°)
— cooked	50 (°)

(°) In edible parts.'

(b) the maximum level for the entry 'Sugars as defined in Directive 73/437/EEC except glucose syrup, whether or not dehydrated' shall be replaced by the following:

'Sugars as defined in Directive 73/437/EEC except glucose syrup, whether or not dehydrated	10'
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(c) the following foodstuffs and maximum levels:

'Vegetable and cereal-protein-based meat, fish and crustacean analogues	200'
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shall be replaced by the following:

'Analogues of meat, fish and crustaceans based on protein	200'
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(d) at the end of this Part, the following foodstuffs and maximum levels shall be added:

'Marinated nuts	50
Vacuum packed sweetcorn	100
Distilled alcoholic beverages containing whole pears	50'

5. In Annex III, Part C:

(a) the following foodstuff and maximum level shall be added to E 234:

'E 234	Nisin (1)	Mascarpone	10 mg/kg'
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(b) the following foodstuffs and maximum levels shall be added to E 251 and E 252:

'E 251	Sodium nitrate	<i>Foie gras, foie gras entier, blocs de foie gras</i>	50 (*)
E 252	Potassium nitrate		

(*) Expressed as Na NO₃';

(c) the following foodstuffs and maximum levels shall be added to E 280, E 281, E 282 and E 283:

'E 280	Propionic acid	Prepacked <i>pølsebrød, boller</i> and <i>dansk flutes</i>	2 000 mg/kg, expressed as propionic acid
E 281	Sodium propionate		
E 282	Calcium propionate		
E 283	Potassium propionate		
		Cheese and cheese analogues (surface treatment only)	<i>quantum satis</i> '

(d) the following table shall be deleted:

'E 233	Thiabendazole	Surface treatment of: — citrus fruit — bananas	6 mg/kg 3 mg/kg'
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6. The designation 'Dehydrated granulated potatoes' contained in the table in Annex III Parts B and D in the foodstuffs column shall be replaced by 'Dehydrated potatoes'.

7. In Annex IV:

(a) the designation 'Instant tea powder' concerning E 297 Fumaric acid and the maximum level of 1 g/l shall be replaced by 'Instant products for preparation of flavoured tea and herbal infusions with the maximum level: 1 g/kg';

(b) the table concerning E 338 to E 452 shall be replaced by the following:

	'In the following applications the indicated maximum levels of phosphoric acid and the phosphates E 338, E 339, E 340, E 341, E 343, E 450, E 451 and E 452 may be added individually or in combination (expressed as P ₂ O ₅):		
E 338	Phosphoric acid	Non-alcoholic flavoured drinks	700 mg/l
		Sterilised and UHT milk	1 g/l
		Candied fruits	800 mg/kg
		Fruit preparations	800 mg/kg
E 339	Sodium phosphates	Partly dehydrated milk with less than 28 % solids	1 g/kg
	(i) Monosodium phosphate	Partly dehydrated milk with more than 28 % solids	1,5 g/kg
	(ii) Disodium phosphate	Dried milk and dried skimmed milk	2,5 g/kg
	(iii) Trisodium phosphate	Pasteurised, sterilised and UHT creams	5 g/kg
		Whipped cream and vegetable fat analogues	5 g/kg
		Unripened cheese (except Mozzarella)	2 g/kg
E 340	Potassium phosphates	Processed cheese and processed cheese analogues	20 g/kg
	(i) Monopotassium phosphate	Meat products	5 g/kg
	(ii) Dipotassium phosphate	Sport drinks and prepared table waters	0,5 g/l
	(iii) Tripotassium phosphate	Dietary supplements	<i>quantum satis</i>
		Salt and its substitutes	10 g/kg
		Vegetable protein drinks	20 g/l
E 341	Calcium phosphates	Beverage whiteners	30 g/kg
	(i) Monocalcium phosphate	Beverage whiteners for vending machines	50 g/kg
	(ii) Dicalcium phosphate	Edible ices	1 g/kg
	(iii) Tricalcium phosphate	Desserts	3 g/kg
		Dry powdered dessert mixes	7 g/kg
E 343	Magnesium phosphates	Fine bakery wares	20 g/kg
	(i) Monomagnesium phosphate	Flour	2,5 g/kg
	(ii) Dimagnesium phosphate	Flour, self-raising	20 g/kg
		Soda bread	20 g/kg
		Liquid egg (white, yolk or whole egg)	10 g/kg
E 450	Diphosphates	Sauces	5 g/kg
	(i) Disodium diphosphate	Soups and broths	3 g/kg
	(ii) Trisodium diphosphate	Instant tea and instant herbal infusions	2 g/kg
	(iii) Tetrasodium diphosphate	Cider and perry	2 g/l
	(v) Tetrapotassium diphosphate	Chewing gum	<i>quantum satis</i>
		Dried powdered foodstuffs	10 g/kg
	(vi) Dicalcium diphosphate	Chocolate and malt dairy-based drinks	2 g/l

E 451	(vii) Calcium dihydrogen diphosphate	Alcoholic drinks (excluding wine and beer)	1 g/l
	Triphosphates	Breakfast cereals	5 g/kg
		Snacks	5 g/kg
		Surimi	1 g/kg
E 452	Polyphosphates	Fish and crustacean paste	5 g/kg
		(i) Pentasodium triphosphate	Toppings (syrops for pancakes, flavoured syrops for milkshakes and ice cream; similar products)
		(ii) Pentapotassium triphosphate	Special formulae for particular nutritional uses
	Polyphosphates	Glazings for meat and vegetable products	5 g/kg
		Sugar confectionery	4 g/kg
		(i) Sodium polyphosphate	5 g/kg
		(ii) Potassium polyphosphate	Icing sugar
		(iii) Sodium calcium polyphosphate	10 g/kg
		(iv) Calcium polyphosphates	Noodles
			2 g/kg
			Batters
			12 g/kg
		Fillets of unprocessed fish, frozen and deep-frozen	5 g/kg
		Unprocessed and processed molluscs and crustaceans frozen and deep-frozen	5 g/kg

(c) the following additive shall be added:

'E 468	Crosslinked sodium carboxy methyl cellulose	Solid dietary supplements	30 g/kg'
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(d) the designation 'Minarine' concerning E 385 shall be amended as follows:

		'Spreadable fats as defined in Annexes B and C of Regulation (EC) No 2991/94 (*) having a fat content of 41 % or less	100 mg/kg
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(*) OJ L 316, 9.12.1994, p. 2.;

(e) the following foodstuff and maximum level shall be added to E 405:

'E 405	Propane-1, 2-diol alginate	Cider excluding <i>cidre bouché</i>	100 mg/l'
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(f) the designation in the 12th section, third column, concerning E 442, shall be amended as follows:

‘Cocoa and chocolate products as defined in Directive 73/241/EEC including fillings’

‘Confectionery based on these products’;

(g) the following foodstuff and maximum level shall be added to E 445:

‘E 445	Glycerolesters of wood rosins	Surface treatment of citrus fruit	50 mg/kg’
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(h) the following foodstuffs and maximum levels shall be added to E 473 and E 474:

‘E 473	Sucrose esters of fatty acids	Cream analogues	5 g/kg
E 474	Sucroglycerides	Sterilised cream and sterilised cream with reduced fat content	5 g/kg’

(i) the designation ‘Low and very low fat spreads and dressings’ concerning E 476 shall be amended as follows:

‘E 476	Polyglycerol polyricinoleate	Spreadable fats as defined in Annexes A, B and C of Regulation (EC) No 2991/94 having a fat content of 41 % or less	4 g/kg
		Similar spreadable products with a fat content of less than 10 % fat	4 g/kg
		Dressings	4 g/kg’

(j) the following foodstuffs and maximum levels concerning E 551 to E 559 shall be added:

		‘Seasonings	30 g/kg
		Confectionery excluding chocolate (surface treatment only) (*)	<i>quantum satis</i>
		Tin-greasing products	30 g/kg

(*) The designation “Confectionery excluding chocolate (surface treatment only)” replaces “Moulded jelly sweets (surface treatment only)” in Directive 95/2/EC.’;

(k) the designation ‘Sliced hard cheese and sliced processed cheese’ concerning E 551 to E 559 shall be amended as follows:

		‘Sliced or grated hard, semi-hard and processed cheese Sliced or grated cheese analogues and processed cheese analogues	10 g/kg’
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(l) the following foodstuff and maximum level shall be added to E 900:

‘E 900	Dimethyl polysiloxane	Cider excluding <i>cidre bouché</i>	10 mg/l’
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(m) the following foodstuffs and maximum levels shall be added to E 901, E 902, E 903 and E 904:

'E 901	Beeswax, white and yellow	Peaches and pineapples (surface treatment only)	<i>quantum satis</i> '
E 902	Candelilla wax		
E 903	Carnauba wax		
E 904	Shellac		

(n) the following foodstuffs and maximum levels shall be added to E 912 and E 914:

'E 912	Montanic acid esters	Fresh melon, mango, papaya, avocado and pineapple (surface treatment only)	<i>quantum satis</i> '
E 914	Oxidised polyethylene wax		

(o) the following foodstuffs and maximum levels shall be added to E 957:

'E 957	Thaumatococcus	Water-based flavoured non-alcoholic drinks	0,5 mg/l
		Desserts — dairy and non dairy	5 mg/kg (as flavour enhancer only)'

(p) the designation 'Margarine' and 'Minarine' concerning E 959 shall be amended as follows:

'E 959	Neohesperidine DC	Spreadable fats as defined in Annexes B and C of Regulation (EC) No 2991/94	5 mg/kg'
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(q) the following foodstuff and maximum level shall be added to E 999:

'E 999	Quillaia extract	Cider excluding <i>cidre bouché</i>	200 mg/l calculated as anhydrous extract'
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(r) the following table shall be added:

'E 905	Microcrystalline wax	Surface treatment of — confectionery excluding chocolate — chewing gum — melons, papaya, mango and avocado	<i>quantum satis</i>
E 1518	Glyceryl triacetate (triacetin)	Chewing gum	<i>quantum satis</i> '

(s) the following table shall be added:

'E 459	Beta-cyclodextrine	Foodstuffs in tablet and coated tablet form	<i>quantum satis</i>
E 425	Konjac (*) (i) Konjac gum (ii) Konjac glucomannane	Foodstuffs in general (except those referred to in Article 2(3))	10 g/kg individually or in combination

(*) These substances may not be used to produce dehydrated foodstuffs intended to rehydrate on ingestion.'

8. In Annex V, the following table shall be added:

'E 322	Lecithins	glazing agents for fruit
E 432-E 436	Polysorbates	
E 470a	Sodium, potassium and calcium salts of fatty acids	
E 471	Mono and diglycerides of fatty acids	
E 491-E 495	Sorbitans	
E 570	Fatty acids	
E 900	Dimethylpolysiloxane	
	Polyethyleneglycol 6000	sweeteners
E 425	Konjac (i) Konjac gum (ii) Konjac glucomannane	
E 459	Beta-cyclodextrine	1 g/kg
E 1451	Acetylated oxidised starch	
E 468	Cross linked sodium carboxy methyl cellulose	sweeteners
E 469	Enzymatically hydrolysed carboxy methyl cellulose'	

9. In Annex VI:

(a) the first subparagraph of the introductory note shall be replaced by the following:

'Formulae and weaning foods for infants and young children may contain E 414 (acacia gum, gum arabic) and E 551 (silicon dioxide) resulting from the addition of nutrient preparations containing not more than 150 g/kg of E 414 and 10 g/kg of E 551, as well as E 421 (mannitol) when used as a carrier for vitamin B₁₂ (not less than one part vitamin B₁₂ to 1 000 parts mannitol). The carry over of E 414 in the product ready for consumption should not be more than 10 mg/kg.

Formulae and weaning foods for infants and young children may contain E 301 (sodium L-ascorbate), used at QS level in coatings of nutrient preparations containing polyunsaturated fatty acids. The carry over of E 301 in the product ready for consumption should not be more than 75 mg/l';

(b) in Part 1, note 2 shall be replaced by the following:

'2. If more than one of the substances E 322, E 471, E 472c and E 473 are added to a foodstuff, the maximum level established for that foodstuff for each of those substances is lowered with that relative part as is present of the other substances together in that foodstuff.';

(c) in Part 1, the following table shall be added:

E 304	L-ascorbyl palmitate	10 mg/l
E 331	Sodium citrates	2 g/l
E 332	Potassium citrates	Individually or in combination and in conformity with the limits set in Annex I to Directive 91/321/EEC
E 339	Sodium phosphates	1 g/l expressed as P_2O_5
E 340	Potassium phosphates	Individually or in combination and in conformity with the limits set in Annex I to Directive 91/321/EEC
E 412	Guar gum	1 g/l, where the liquid product contains partially hydrolysed proteins and is in conformity with the conditions set in Annex IV of Directive 91/321/EEC, as amended by Directive 96/4/EC
E 472 c	Citric acid esters of mono- and diglycerides of fatty acids	7,5 g/l sold as powder 9 g/l sold as liquid where the products contain partially hydrolysed proteins, peptides or amino acids and are in conformity with the conditions set in Annex IV of Directive 91/321/EEC, as amended by Directive 96/4/EC
E 473	Sucrose esters of fatty acids	120 mg/l in products containing hydrolysed proteins, peptides or amino acids'

(d) in Part 2, note 2 shall be replaced by the following:

'2. If more than one of the substances E 322, E 471, E 472c and E 473 is added to a foodstuff, the maximum level established for that foodstuff for each of those substances is lowered with that relative part as is present of the other substances together in that foodstuff.';

(e) in Part 2, the following table shall be added:

E 304	L-ascorbyl palmitate	10 mg/l
E 331	Sodium citrates	2 g/l
E 332	Potassium citrates	Individually or in combination and in conformity with the limits set in Annex I to Directive 91/321/EEC
E 339	Sodium phosphates	1 g/l expressed as P_2O_5
E 340	Potassium phosphates	Individually or in combination and in conformity with the limits set in Annex I to Directive 91/321/EEC
E 472c	Citric acid esters of mono- and diglycerides of fatty acids	7,5 g/l sold as powder 9 g/l sold as liquid where the products contain partially hydrolysed proteins, peptides or amino acids and are in conformity with the conditions set in Annex IV of Directive 91/321/EEC, as amended by Directive 96/4/EC
E 473	Sucrose esters of fatty acids	120 mg/l in products containing hydrolysed proteins, peptides or amino acids'

(f) in Part 3, the following table shall be added:

'E 333	Calcium citrates (*)	In low-sugar fruit based products	<i>quantum satis</i>
E 341	Tricalcium phosphate (*)	In fruit based desserts	1 g/kg as P ₂ O ₅
E 1451	Acetylated oxidised starch	Weaning foods	50 g/kg

(*) The note in part 4 does not apply.;

(g) in Part 4, the following table shall be added:

'E number	Name	Maximum level	Special conditions
E 401	Sodium alginate	1 g/l	From four months onwards in special food products with adapted composition, required for metabolic disorders and for general tube-feeding
E 405	Propane 1,2-diolalginate	200 mg/l	From 12 months onwards in specialised diets intended for young children who have cow's milk intolerance or inborn errors of metabolism
E 410	Locust bean gum	10 g/l	From birth onwards in products for reduction of gastro-oesophageal reflux
E 412	Guar gum	10 g/l	From birth onwards in products in liquid formulae containing hydrolysed proteins, peptides or amino acids in conformity with the conditions set in Annex IV of Directive 91/321/EEC, as amended by Directive 96/4/EC
E 415	Xanthan gum	1,2 g/l	From birth onwards for use in products based on amino acids or peptides for use with patients who have problems with impairment of the gastro-intestinal tract, protein mal-absorption or inborn errors of metabolism
E 440	Pectins	10 g/l	From birth onwards in products used in case of gastro-intestinal disorders
E 466	Sodium carboxy methyl cellulose	10 g/l or kg	From birth onwards in products for the dietary management of metabolic disorders
E 471	Mono- and diglycerides of fatty acids	5 g/l	From birth onwards in specialised diets, particularly those devoid of proteins
E 1450	Starch sodium octenyl succinate	20 g/l	In infant formulae and follow-on formulae'