



EUROPEAN COMMISSION  
HEALTH & CONSUMER PROTECTION DIRECTORATE-GENERAL  
Directorate E – Safety of the food chain  
E3 – Chemicals, contaminants, pesticides

## **FOOD CONTACT MATERIALS**

# **SUBSTANCES LISTED IN EU DIRECTIVES ON PLASTICS IN CONTACT WITH FOOD**

**Last update 10 April 2008**

**This document should be considered as a working document for information only and not as a legal or binding document. If you notice mistakes, please inform Ms. Friedle Vanhee (friedle.vanhee (a)ec.europa.eu).**

## **NOTE FOR READER**

1. The Annex I of this document collects in a consolidated list all monomers as well as additives of Sections A and B appearing in the EC Directives on plastics for food applications i.e. in the Directive 2002/72/EC (O.J. L 220 of 18.8.2002, p. 193) and its amendments 2004/1/EC (OJ L 7 of 13.1.2004, p. 45), 2004/19/EC (O.J. L 71 of 10.03.2004, p 247), 2005/79/EC (OJ L 302 of 19.11.2005, p.35), 2007/19/EC (OJ L97 of 12.04.07, p. 50-69) and 2008/39/EC (OJ L 63 of 07/03/2008, p. 6-13).
2. This document should be considered as a working document for information only and not as a legal or binding document. If you notice mistakes, please inform Ms. Friedle Vanhee (friedle.vanhee(a)ec.europa.eu).
3. The substances not included in this document are not necessarily forbidden. In fact they may be used in plastics not yet regulated at EU level (plastics excluded from the field of application of Directive 2002/72/EC) or they may be authorised as additive at national level until 1 January 2010, when the list of additives becomes a positive list.
4. Directive 2008/39/EC amending Directive 2002/72/EC on plastics establishes that the Community list of additives to be used in plastic food contact materials becomes a positive list on 1 January 2010, meaning that after this date only those additives listed will be permitted for the manufacture of plastics. However, substances on the provisional list may continue to be used subject to national law after 1 January 2010 until a decision is taken on their possible inclusion in the positive list of additives. This provisional list includes all additives that are under evaluation by EFSA and for which a petition was submitted until December 2006 in accordance with the requirements set in Article 4a. Directive 2008/39/EC also clarifies the criteria for removal of an additive from the provisional list. You can find the provisional list in the *Europa* website:  
[http://ec.europa.eu/food/food/chemicalsafety/foodcontact/documents\\_en.htm](http://ec.europa.eu/food/food/chemicalsafety/foodcontact/documents_en.htm)
5. Specifications on the substances are in the Annex II.
6. For plastic food contact materials an overall migration limit of 60 mg/kg food or food simulant exists.
7. For verification of compliance with migration limits rules are laid down in Directives 82/711/EEC, 85/572/EEC, 93/8/EEC and 97/48/EC.
8. Vinyl chloride is authorised as monomer in Directive 78/142/EEC with a maximum residual level of 1 mg/kg in the final product. Migration into food should not be detectable with a detection limit of 0.01 mg/kg food.

# ANNEX I

Ref. No	CAS No	Name	Restrictions and/or specifications
(1)	(2)	(3)	(4)
<b>MONOMERS</b>			
10030	000514-10-3	Abietic acid	
10060	000075-07-0	Acetaldehyde	SML(T) = 6 mg/kg (2)
10090	000064-19-7	Acetic acid	
10120	000108-05-4	Acetic acid, vinyl ester	SML = 12 mg/kg
10150	000108-24-7	Acetic anhydride	
10210	000074-86-2	Acetylene	
10599/90A	061788-89-4	Acids, fatty, unsaturated (C18), dimers, distilled	QMA(T) = 0.05 mg/6 dm <sup>2</sup> (27)
10599/91	061788-89-4	Acids, fatty, unsaturated (C18), dimers, non distilled	QMA(T) = 0.05 mg/6 dm <sup>2</sup> (27)
10599/92A	068783-41-5	Acids, fatty, unsaturated (C18), dimers, hydrogenated, distilled	QMA(T) = 0.05 mg/6 dm <sup>2</sup> (27)
10599/93	068783-41-5	Acids, fatty, unsaturated (C18), dimers, hydrogenated, non distilled	QMA(T) = 0.05 mg/6 dm <sup>2</sup> (27)
10630	000079-06-1	Acrylamide	SML = ND (DL = 0.01 mg/kg)
10660	015214-89-8	2-Acrylamido-2-methylpropanesulphonic acid	SML = 0.05 mg/kg
10690	000079-10-7	Acrylic acid	SML(T) = 6 mg/kg (36)
10750	002495-35-4	Acrylic acid, benzyl ester	SML(T) = 6 mg/kg (36)
10780	000141-32-2	Acrylic acid, n-butyl ester	SML(T) = 6 mg/kg (36)
10810	002998-08-5	Acrylic acid, sec-butyl ester	SML(T) = 6 mg/kg (36)
10840	001663-39-4	Acrylic acid, tert-butyl ester	SML(T) = 6 mg/kg (36)
11005	012542-30-2	Acrylic acid, dicyclopentenyl ester	QMA = 0.05 mg/6 dm <sup>2</sup>
11245	002156-97-0	Acrylic acid, dodecyl ester	SML = 0.05 mg/kg (1)
11470	000140-88-5	Acrylic acid, ethyl ester	SML(T) = 6 mg/kg (36)
11500	000103-11-7	Acrylic acid, 2-ethylhexyl ester	SML = 0.05 mg/kg
11510	000818-61-1	Acrylic acid, hydroxyethyl ester	See "Acrylic acid, monoester with ethyleneglycol"
11530	000999-61-1	Acrylic acid, 2-hydroxypropyl ester	QMA = 0.05 mg/6 dm <sup>2</sup> for the sum of acrylic acid, 2-hydroxypropyl ester and acrylic acid, 2-hydroxyisopropyl ester and in compliance with the specifications laid down in Annex V.
11590	000106-63-8	Acrylic acid, isobutyl ester	SML(T) = 6 mg/kg (36)
11680	000689-12-3	Acrylic acid, isopropyl ester	SML(T) = 6 mg/kg (36)
11710	000096-33-3	Acrylic acid, methyl ester	SML(T) = 6 mg/kg (36)
11830	000818-61-1	Acrylic acid, monoester with ethyleneglycol	SML(T) = 6 mg/kg (36)
11890	002499-59-4	Acrylic acid, n-octyl ester	SML(T) = 6 mg/kg (36)
11980	000925-60-0	Acrylic acid, propyl ester	SML(T) = 6 mg/kg (36)
12100	000107-13-1	Acrylonitrile	SML = ND (DL = 0.020 mg/kg, analytical tolerance included)
12130	000124-04-9	Adipic acid	
12265	004074-90-2	Adipic acid, divinyl ester	QM = 5 mg/kg in FP. For use only as co-monomer.
12280	002035-75-8	Adipic anhydride	
12310	-	Albumin	
12340	-	Albumin, coagulated by formaldehyde	
12375	-	Alcohols, aliphatic, monohydric, saturated, linear, primary (C4-C22)	

Ref. No	CAS No	Name	Restrictions and/or specifications
(1)	(2)	(3)	(4)
12670	002855-13-2	1-Amino-3-aminomethyl-3,5,5-trimethylcyclohexane	SML = 6 mg/kg
12761	000693-57-2	12-Aminododecanoic acid	SML = 0.05 mg/kg
12763	000141-43-5	2-Aminoethanol	SML = 0.05 mg/kg. Not for use in polymers contacting foods for which simulant D is laid down in Directive 85/572/EEC and for indirect food contact only, behind the PET layer
12765	084434-12-8	N-(2-Aminoethyl)-beta-alanine, sodium salt	SML = 0.05 mg/kg
12786	000919-30-2	3- Aminopropy ltriethoxy silane	Residual extractable content of 3-aminopropyltriethoxysilane to be less than 3 mg/kg filler when used for the reactive surface treatment of inorganic fillers and SML = 0,05 mg/kg when used for the surface treatment of materials and articles.
12788	002432-99-7	11-Aminoundecanoic acid	SML = 5 mg/kg
12789	007664-41-7	Ammonia	
12820	000123-99-9	Azelaic acid	
12970	004196-95-6	Azelaic anhydride	
13000	001477-55-0	1,3-Benzenedimethanamine	SML = 0.05 mg/kg
13060	004422-95-1	1,3,5-Benzenetricarboxylic acid trichloride	QMA = 0.05 mg/6 dm <sup>2</sup> measured as 1,3,5-benzenetricarboxylic acid.
13075	000091-76-9	Benzoguanamine	See "2,4-Diamino-6-phenyl-1,3,5-triazine"
13090	000065-85-0	Benzoic acid	
13150	000100-51-6	Benzyl alcohol	
13180	000498-66-8	Bicyclo[2.2. 1]hept-2-ene	SML = 0.05 mg/kg
13210	001761-71-3	Bis(4-Aminocyclohexyl)methane	SML = 0.05 mg/kg
13317	132459-54-2	N,N'-Bis[4-(ethoxycarbonyl)phenyl]-1,4,5,8-naphthalenetetracarboxydiimide	SML = 0.05 mg/kg. Purity > 98,1% (w/w). To be used only as co-monomer (max 4%) for polyesters (PET, PBT)
13323	000102-40-9	1,3-Bis(2-hydroxyethoxy)benzene	SML = 0.05 mg/kg
13326	000111-46-6	Bis(2-hydroxyethyl) ether	See "Diethyleneglycol"
13380	000077-99-6	2,2-Bis(hydroxymethyl)-1-butanol	See "1,1,1-Trimethylol propane"
13390	000105-08-8	1,4-Bis(hydroxymethyl)cyclohexane	
13395	004767-03-7	2,2-Bis(hydroxymethyl)propionic acid	QMA = 0.05 mg/6 dm <sup>2</sup>
13480	000080-05-7	2,2-Bis(4-hydroxyphenyl)propane	SML(T) = 0.6 mg/kg (28)
13510	001675-54-3	2,2-Bis(4-hydroxyphenyl)propane bis(2,3-epoxypropyl) ether (=BADGE)	According to Commission Regulation (EC) No 1895/2005 on the restriction of use of certain epoxy derivatives in materials and articles intended to come into contact with food.
13530	038103-06-9	2,2-Bis(4-hydroxyphenyl)propane, bis(phthalic anhydride)	SML = 0.05 mg/kg
13550	000110-98-5	Bis(hydroxypropyl) ether	See "Dipropyleneglycol"
13560	005124-30-1	Bis(4-isocyanatocyclohexyl)methane	See "Dicyclohexylmethane-4,4'-diisocyanate"
13600	047465-97-4	3,3 -Bis(3-methyl-4-hydroxyphenyl)-2-	SML = 1.8 mg/kg

Ref. No	CAS No	Name	Restrictions and/or specifications
(1)	(2)	(3)	(4)
		indolinone	
13607	000080-05-7	Bisphenol A	See "2,2-Bis(4-hydroxyphenyl)propane"
13610	001675-54-3	Bisphenol A bis(2,3-epoxypropyl)ether	See "2,2-Bis(4-hydroxyphenyl)propane bis(2,3-epoxypropyl)ether"
13614	038103-06-9	Bisphenol A bis(phthalic anhydride)	See "2,2-Bis(4-hydroxyphenyl)propane, bis(phthalic anhydride)"
13617	000080-09-1	Bisphenol S	See "4,4'-Dihydroxydiphenyl sulphone"
13620	010043-35-3	Boric acid	SML(T) = 6 mg/kg (23) (expressed as Boron) without prejudice to the provisions of Directive 98/83/EC on water for human consumption.
13630	000106-99-0	Butadiene	QM = 1 mg/kg in FP or SML =ND (DL =0.020 mg/kg, analytical tolerance included)
13690	000107-88-0	1,3-Butanediol	
13720	000110-63-4	1,4-Butanediol	SML(T) = 5 mg/kg (24)
13780	002425-79-8	1,4-Butanediol bis(2,3-epoxypropyl) ether	QM = 1 mg/kg in FP (expressed as Epoxy group, Mw=43)
13810	000505-65-7	1,4-Butanediol formal	QMA = 0.05 mg/6 dm <sup>2</sup>
13840	000071-36-3	1-Butanol	
13870	000106-98-9	1-Butene	
13900	000107-01-7	2-Butene	
13932	000598-32-3	3-Buten-2-ol	QMA = ND (DL = 0.02 mg/6 dm <sup>2</sup> ). To be used only as a comonomer for the preparation of polymeric additive
14020	000098-54-4	4-tert-Butylphenol	SML = 0.05 mg/kg
14110	000123-72-8	Butyraldehyde	
14140	000107-92-6	Butyric acid	
14170	000106-31-0	Butyric anhydride	
14200	000105-60-2	Caprolactam	SML(T) = 15 mg/kg (5)
14230	002123-24-2	Caprolactam, sodium salt	SML(T) = 15 mg/kg (5) (expressed as Caprolactam)
14260	000502-44-3	Caprolactone	SML = 0.05 mg/kg (expressed as the sum of caprolactone and 6-hydroxyhexanoic acid)
14320	000124-07-2	Caprylic acid	
14350	000630-08-0	Carbon monoxide	
14380	000075-44-5	Carbonyl chloride	QM = 1 mg/kg in FP
14411	008001-79-4	Castor oil	
14500	009004-34-6	Cellulose	
14530	007782-50-5	Chlorine	
14570	000106-89-8	1-Chloro-2,3-epoxypropane	See "Epichlorohydrin"
14650	000079-38-9	Chlorotrifluoroethylene	QMA = 0.5 mg/6 dm <sup>2</sup>
14680	000077-92-9	Citric acid	
14710	000108-39-4	m-Cresol	
14740	000095-48-7	o-Cresol	
14770	000106-44-5	p-Cresol	
14800	003724-65-0	Crotonic acid	QMA(T) = 0.05 mg/6dm <sup>2</sup> (33)

Ref. No	CAS No	Name	Restrictions and/or specifications
(1)	(2)	(3)	(4)
14841	000599-64-4	4-Cumylphenol	SML = 0.05 mg/kg
14880	000105-08-8	1,4-Cyclohexanedimethanol	See "1,4-Bis(hydroxymethyl)cyclohexane"
14950	003173-53-3	Cyclohexyl isocyanate	QM(T) = 1 mg/kg (expressed as NCO) (26).
15030	000931-88-4	Cyclooctene	SML = 0.05 mg/kg. For use only in polymers contacting foods for which simulant A is laid down in Directive 85/572/EEC.
15070	001647-16-1	1,9-Decadiene	SML = 0.05 mg/kg
15095	000334-48-5	Decanoic acid	
15100	000112-30-1	1-Decanol	
15130	000872-05-9	1-Decene	SML = 0.05 mg/kg
15250	000110-60-1	1,4-Diaminobutane	
15267	000080-08-0	4,4'-Diaminodiphenyl sulphone	SML = 5 mg/kg
15272	000107-15-3	1,2-Diaminoethane	See "Ethylenediamine"
15274	000124-09-4	1,6-Diaminohexane	See "Hexamethylenediamine"
15310	000091-76-9	2,4-Diamino-6-phenyl-1,3,5-triazine	QMA = 5 mg/6 dm <sup>2</sup>
15404	000652-67-5	1,4:3,6-Dianhydrosorbitol	SML= 5 mg/kg. Only for use as a co-monomer in poly(ethylene-co-isosorbide terephthalate)
15565	000106-46-7	1,4-Dichlorobenzene	SML = 12 mg/kg
15610	000080-07-9	4,4'-Dichlorodiphenyl sulphone	SML = 0.05 mg/kg
15700	005124-30-1	Dicyclohexylmethane-4,4'-diisocyanate	QM(T) = 1 mg/kg (expressed as NCO) (26).
15760	000111-46-6	Diethyleneglycol	SML(T) = 30 mg/kg (3)
15790	000111-40-0	Diethylenetriamine	SML = 5 mg/kg
15820	000345-92-6	4,4'-Difluorobenzophenone	SML = 0.05 mg/kg
15880	000120-80-9	1,2-Dihydroxybenzene	SML = 6 mg/kg
15910	000108-46-3	1,3-Dihydroxybenzene	SML = 2.4 mg/kg
15940	000123-31-9	1,4-Dihydroxybenzene	SML = 0.6 mg/kg
15970	000611-99-4	4,4'-Dihydroxybenzophenone	SML(T) = 6 mg/kg (15)
16000	000092-88-6	4,4'-Dihydroxybiphenyl	SML = 6 mg/kg
16090	000080-09-1	4,4'-Dihydroxydiphenyl sulphone	SML = 0.05 mg/kg
16150	000108-01-0	Dimethylaminoethanol	SML = 18 mg/kg
16210	006864-37-5	3,3'-Dimethyl-4,4'-diaminodicyclohexylmethane	SML = 0.05 mg/kg (32). To be used only in polyamides.
16240	000091-97-4	3,3'-Dimethyl-4,4'-diisocyanatobiphenyl	QM(T) = 1 mg/kg (expressed as NCO) (26).
16360	000576-26-1	2,6-Dimethylphenol	SML = 0.05 mg/kg
16390	000126-30-7	2,2-Dimethyl-1,3 -propanediol	SML = 0.05 mg/kg
16450	000646-06-0	1,3-Dioxolane	SML = 5 mg/kg
16480	000126-58-9	Dipentaerythritol	
16540	000102-09-0	Diphenyl carbonate	SML = 0.05 mg/kg
16570	004128-73-8	Diphenylether-4,4'-diisocyanate	QM(T) = 1 mg/kg (expressed as NCO) (26).
16600	005873-54-1	Diphenylmethane-2,4'-diisocyanate	QM(T) = 1 mg/kg (expressed as NCO) (26).
16630	000101-68-8	Diphenylmethane-4,4'-diisocyanate	QM(T) = 1 mg/kg (expressed as NCO) (26).
16650	000127-63-9	Diphenyl sulphone	SML(T) = 3 mg/kg (25)
16660	000110-98-5	Dipropyleneglycol	

Ref. No	CAS No	Name	Restrictions and/or specifications
(1)	(2)	(3)	(4)
16690	001321-74-0	Divinylbenzene	QMA = 0.01 mg/6 dm <sup>2</sup> or SML = ND (DL = 0.02 mg/kg, analytical tolerance included) for the sum of Divinylbenzene and Ethylvinylbenzene and in compliance with the specifications laid down in Annex V
16694	013811-50-2	N,N'-Divinyl-2-imidazolidinone	QM = 5 mg/kg in FP
16697	000693-23-2	n-Dodecanedioic acid	
16704	000112-41-4	1-Dodecene	SML = 0.05 mg/kg
16750	000106-89-8	Epichlorohydrin	QM = 1 mg/kg in FP
16780	000064-17-5	Ethanol	
16950	000074-85-1	Ethylene	
16955	000096-49-1	Ethylene carbonate	Residual content = 5 mg/kg of hydrogel at a maximum ratio of 10 g of hydrogel to 1 kg of food. The hydrolysate contains ethyleneglycol having an SML = 30 mg/kg
16960	000107-15-3	Ethylenediamine	SML = 12 mg/kg
16990	000107-21-1	Ethyleneglycol	SML(T) = 30 mg/kg (3)
17005	000151-56-4	Ethyleneimine	SML = ND (DL = 0.01 mg/kg).
17020	000075-21-8	Ethylene oxide	QM = 1 mg/kg in FP
17050	000104-76-7	2-Ethyl-1-hexanol	SML = 30 mg/kg
17110	016219-75-3	5-Ethylidenebicyclo [2.2.1]hept-2-ene	QMA = 0.05 mg/6dm <sup>2</sup> . The ratio surface/quantity of food shall be lower than 2 dm <sup>2</sup> /kg
17160	000097-53-0	Eugenol	SML = ND (DL = 0.02 mg/kg, analytical tolerance included)
17170	061788-47-4	Fatty acids, coco	
17200	068308-53-2	Fatty acids, soya	
17230	061790-12-3	Fatty acids, tall oil	
17260	000050-00-0	Formaldehyde	SML(T) = 15 mg/kg (22)
17290	000110-17-8	Fumaric acid	
17530	000050-99-7	Glucose	
18010	000110-94-1	Glutaric acid	
18070	000108-55-4	Glutaric anhydride	
18100	000056-81-5	Glycerol	
18220	068564-88-5	N-Heptylaminoundecanoic acid	SML = 0.05 mg/kg (1)
18250	000115-28-6	Hexachloroendomethylenetetrahydrophthalic acid	SML = ND (DL = 0.01 mg/kg)
18280	000115-27-5	Hexachloroendomethylenetetrahydrophthalic anhydride	SML = ND (DL = 0.01 mg/kg)
18310	036653-82-4	1-Hexadecanol	
18430	000116-15-4	Hexafluoropropylene	SML = ND (DL = 0.01 mg/kg)
18460	000124-09-4	Hexamethylenediamine	SML = 2.4 mg/kg
18640	000822-06-0	Hexamethylene diisocyanate	QM(T) = 1 mg/kg (expressed as NCO) (26).
18670	000100-97-0	Hexamethylenetetramine	SML(T) = 15 mg/kg (22)

Ref. No	CAS No	Name	Restrictions and/or specifications
(1)	(2)	(3)	(4)
			(expressed as Formaldehyde)
18700	000629-11-8	1,6-Hexanediol	SML = 0.05 mg/kg
18820	000592-41-6	1-Hexene	SML = 3 mg/kg
18867	000123-31-9	Hydroquinone	See "1,4-Dihydroxybenzene"
18880	000099-96-7	p-Hydroxybenzoic acid	
18896	001679-51-2	4-(Hydroxymethyl)-1-cyclohexene	SML = 0.05 mg/kg
18897	016712-64-4	6-Hydroxy-2-naphthalenecarboxylic acid	SML = 0.05 mg/kg
18898	000103-90-2	N-(4-Hydroxyphenyl) acetamide	SML = 0.05 mg/kg
19000	000115-11-7	Isobutene	
19060	000109-53-5	Isobutyl vinyl ether	QM = 5 mg/kg in FP
19110	004098-71-9	1 -Isocyanato-3 -isocyanatomethyl-3,5,5-trimethylcyclohexane	QM(T) = 1 mg/kg (expressed as NCO) (26).
19150	000121-91-5	Isophthalic acid	SML(T) = 5 mg/kg (43)
19180	000099-63-8	Isophthalic acid dichloride	SML(T)= 5 mg/kg (43) (expressed as isophthalic acid)
19210	001459-93-4	Isophthalic acid, dimethyl ester	SML = 0.05 mg/kg
19243	000078-79-5	Isoprene	See "2-Methyl-1,3-butadiene"
19270	000097-65-4	Itaconic acid	
19460	000050-21-5	Lactic acid	
19470	000143-07-7	Lauric acid	
19480	002146-71-6	Lauric acid, vinyl ester	
19490	000947-04-6	Lauro lactam	SML = 5 mg/kg
19510	011132-73-3	Lignocellulose	
19540	000110-16-7	Maleic acid	SML(T) = 30 mg/kg (4)
19960	000108-31-6	Maleic anhydride	SML(T) = 30 mg/kg (4) (expressed as Maleic acid).
19975	000108-78-1	Melamine	See "2,4,6-Triamino-1,3,5-Triazine"
19990	000079-39-0	Methacrylamide	SML = ND (DL =0.02 mg/kg, analytical tolerance included)
20020	000079-41-4	Methacrylic acid	SML(T) = 6 mg/kg (37)
20050	000096-05-9	Methacrylic acid, allyl ester	SML = 0.05 mg/kg
20080	002495-37-6	Methacrylic acid, benzyl ester	SML(T) = 6 mg/kg (37)
20110	000097-88-1	Methacrylic acid, butyl ester	SML(T) = 6 mg/kg (37)
20140	002998-18-7	Methacrylic acid, sec-butyl ester	SML(T) = 6 mg/kg (37)
20170	000585-07-9	Methacrylic acid, tert-butyl ester	SML(T) = 6 mg/kg (37)
20260	000101-43-9	Methacrylic acid, cyclohexyl ester	SML = 0.05 mg/kg
20410	002082-81-7	Methacrylic acid, diester with 1,4-butanediol	SML = 0.05 mg/kg
20440	000097-90-5	Methacrylic acid, diester with ethyleneglycol	SML = 0.05 mg/kg
20530	002867-47-2	Methacrylic acid, 2-(dimethylamino)ethyl ester	SML = ND (DL = 0.02 mg/kg, analytical tolerance included)
20590	000106-91-2	Methacrylic acid, 2,3-epoxypropyl ester	QMA = 0.02 mg/6 dm2
20890	000097-63-2	Methacrylic acid, ethyl ester	SML(T) = 6 mg/kg (37)
21010	000097-86-9	Methacrylic acid, isobutyl ester	SML(T) = 6 mg/kg (37)
21100	004655-34-9	Methacrylic acid, isopropyl ester	SML(T) = 6 mg/kg (37)
21130	000080-62-6	Methacrylic acid, methyl ester	SML(T) = 6 mg/kg (37)
21190	000868-77-9	Methacrylic acid, monoester with ethyleneglycol	SML(T) = 6 mg/kg (37)
21280	002177-70-0	Methacrylic acid, phenyl ester	SML(T) = 6 mg/kg (37)
21340	002210-28-8	Methacrylic acid, propyl ester	SML(T) = 6 mg/kg (37)
21370	010595-80-9	Methacrylic acid, 2-sulphoethyl ester	QMA = ND (DL = 0.02 mg/6



Ref. No	CAS No	Name	Restrictions and/or specifications
(1)	(2)	(3)	(4)
			dm <sup>2</sup> )
21400	054276-35-6	Methacrylic acid, sulphopropyl ester, potassium salt	QMA = 0.05 mg/6dm <sup>2</sup>
21460	000760-93-0	Methacrylic anhydride	SML(T) = 6 mg/kg (37)
21490	000126-98-7	Methacrylonitrile	SML = ND (DL = 0.020 mg/kg, analytical tolerance included)
21520	001561-92-8	Methallylsulphonic acid, sodium salt	SML = 5 mg/kg
21550	000067-56-1	Methanol	
21640	000078-79-5	2-Methyl-1,3-butadiene	QM = 1 mg/kg in FP or SML = ND (DL = 0.02 mg/kg, analytical tolerance included)
21730	000563-45-1	3-Methyl-1-butene	QMA = 0.006 mg/6 dm <sup>2</sup> . For use only in Polypropylene.
21765	106246-33-7	4,4'-Methylenebis(3-chloro-2,6-diethylaniline)	QMA = 0.05 mg/6 dm <sup>2</sup>
21821	000505-65-7	1,4-(Methylenedioxy)butane	See "1,4-Butanediol formal"
21940	000924-42-5	N-Methylolacrylamide	SML = ND (DL = 0.01 mg/kg)
21970	000923-02-4	N-Methylolmethacrylamide	SML = 0,05 mg/kg
22150	000691-37-2	4-Methyl-1-pentene	SML = 0.05 mg/kg
22210	000098-83-9	alpha-Methylstyrene	SML = 0.05 mg/kg
22331	025513-64-8	Mixture of (35-45% w/w) 1,6-diamino-2,2,4-trimethylhexane and (55-65% w/w) 1,6-diamino-2,4,4-trimethylhexane	QMA = 5 mg/6 dm <sup>2</sup>
22332	-	Mixture of (40% w/w) 2,2,4-trimethylhexane-1,6-diisocyanate and (60% w/w) 2,4,4-trimethylhexane-1,6-diisocyanate	QM(T) = 1 mg/kg (expressed as NCO) (26).
22350	000544-63-8	Myristic acid	
22360	001141-38-4	2,6-Naphthalenedicarboxylic acid	SML = 5 mg/kg
22390	000840-65-3	2,6-Naphthalenedicarboxylic acid, dimethyl ester	SML = 0.05 mg/kg
22420	003173-72-6	1,5-Naphthalene diisocyanate	QM(T) = 1 mg/kg (expressed as NCO) (26).
22437	000126-30-7	Neopentylglycol	See "2,2-Dimethyl-1,3-Propanediol"
22450	009004-70-0	Nitrocellulose	
22480	000143-08-8	1-Nonanol	
22550	000498-66-8	Norbornene	See "Bicyclo[2.2.1]hept-2-ene"
22570	000112-96-9	Octadecyl isocyanate	QM(T) = 1 mg/kg (expressed as NCO) (26).
22600	000111-87-5	1-Octanol	
22660	000111-66-0	1-Octene	SML = 15 mg/kg
22763	000112-80-1	Oleic acid	
22775	000144-62-7	Oxalic acid	SML(T) = 6 mg/kg (29)
22778	007456-68-0	4,4'-Oxybis(benzenesulphonyl azide)	QMA = 0.05 mg/6 dm <sup>2</sup>
22780	000057-10-3	Palmitic acid	
22840	000115-77-5	Pentaerythritol	
22870	000071-41-0	1-Pentanol	
22932	001187-93-5	Perfluoromethyl perfluorovinyl ether	SML = 0.05 mg/kg. Only to be used for anti-stick coatings.
22937	001623-05-8	Perfluoropropyl perfluorovinyl ether	SML = 0.05 mg/kg
22960	000108-95-2	Phenol	
23050	000108-45-2	1,3-Phenylenediamine	SML = ND (DL = 0.02 mg/kg , analytical tolerance included)
23070	000102-39-6	(1,3-Phenylenedioxy)diacetic acid	QMA = 0.05 mg/6dm <sup>2</sup>

Ref. No	CAS No	Name	Restrictions and/or specifications
(1)	(2)	(3)	(4)
23155	000075-44-5	Phosgene	See "Carbonyl chloride"
23170	007664-38-2	Phosphoric acid	
23175	000122-52-1	Phosphorous acid, triethyl ester	QM = ND (DL = 1 mg/kg in FP)
23187	-	Phthalic acid	See "Terephthalic acid"
23200	000088-99-3	o-Phthalic acid	
23230	000131-17-9	Phthalic acid, diallyl ester	SML = ND (DL = 0.01 mg/kg)
23380	000085-44-9	Phthalic anhydride	
23470	000080-56-8	alpha-Pinene	
23500	000127-91-3	beta-Pinene	
23547	009016-00-6 and 063148-62-9	Polydimethylsiloxane (Mw> 6800)	In compliance with the specifications laid down in Annex V
23590	025322-68-3	Polyethyleneglycol	
23651	025322-69-4	Polypropyleneglycol	
23740	000057-55-6	1,2-Propanediol	
23770	000504-63-2	1,3-Propanediol	SML = 0.05 mg/kg
23800	000071-23-8	1-Propanol	
23830	000067-63-0	2-Propanol	
23860	000123-38-6	Propionaldehyde	
23890	000079-09-4	Propionic acid	
23920	000105-38-4	Propionic acid, vinyl ester	SML(T) = 6 mg/kg (2) (expressed as Acetaldehyde)
23950	000123-62-6	Propionic anhydride	
23980	000115-07-1	Propylene	
24010	000075-56-9	Propylene oxide	QM = 1 mg/kg in FP
24051	000120-80-9	Pyrocatechol	See "1,2-Dihydroxybenzene"
24057	000089-32-7	Pyromellitic anhydride	SML = 0.05 mg/kg (expressed as Pyromellitic acid)
24070	073138-82-6	Resin acids and rosin acids	
24072	000108-46-3	Resorcinol	See "1,3-Dihydroxybenzene"
24073	000101-90-6	Resorcinol diglycidyl ether	QMA = 0.005 mg/6 dm <sup>2</sup> - Not for use in polymers contacting foods for which simulant D is laid down in Directive 85/572/EEC and for indirect food contact only, behind the PET layer.
24100	008050-09-7	Rosin	
24130	008050-09-7	Rosin gum	See "Rosin"
24160	008052-10-6	Rosin tall oil	
24190	008050-09-7	Rosin wood	See "Rosin" (Reference No 24100)
24250	009006-04-6	Rubber, natural	
24270	000069-72-7	Salicylic acid	
24280	000111-20-6	Sebacic acid	
24430	002561-88-8	Sebacic anhydride	
24475	001313-82-2	Sodium sulphide	
24490	000050-70-4	Sorbitol	
24520	008001-22-7	Soybean oil	
24540	009005-25-8	Starch, edible	
24550	000057-11-4	Stearic acid	
24610	000100-42-5	Styrene	

Ref. No	CAS No	Name	Restrictions and/or specifications
(1)	(2)	(3)	(4)
24760	026914-43-2	Styrenesulphonic acid	SML = 0.05 mg/kg
24820	000110-15-6	Succinic acid	
24850	000108-30-5	Succinic anhydride	
24880	000057-50-1	Sucrose	
24886	046728-75-0	5-Sulphoisophthalic acid, mono-lithium salt	SML = 5 mg/kg and for lithium SML(T) = 0,6 mg/kg (8) (expressed as lithium)
24887	006362-79-4	5-Sulphoisophthalic acid, monosodium salt	SML = 5 mg/kg
24888	003965-55-7	5-Sulphoisophthalic acid, monosodium salt, dimethyl ester	SML = 0.05 mg/kg
24903	068425-17-2	Syrups, hydrolysed starch, hydrogenated	In compliance with the specifications laid down in Annex V
24910	000100-21-0	Terephthalic acid	SML = 7.5 mg/kg
24940	000100-20-9	Terephthalic acid dichloride	SML(T) = 7.5 mg/kg (as Terephthalic acid)
24970	000120-61-6	Terephthalic acid, dimethyl ester	
25080	001120-36-1	1-Tetradecene	SML = 0.05 mg/kg
25090	000112-60-7	Tetraethyleneglycol	
25120	000116-14-3	Tetrafluoroethylene	SML = 0.05 mg/kg
25150	000109-99-9	Tetrahydrofuran	SML = 0.6 mg/kg
25180	000102-60-3	N,N,N,'N'-Tetrakis(2-hydroxypropyl)ethylenediamine	
25210	000584-84-9	2,4-Toluene diisocyanate	QM(T) = 1 mg/kg (expressed as NCO) (26).
25240	000091-08-7	2,6-Toluene diisocyanate	QM(T) = 1 mg/kg (expressed as NCO) (26).
25270	026747-90-0	2,4-Toluene diisocyanate dimer	QM(T) = 1 mg/kg (expressed as NCO) (26).
25360	-	Trialkyl(C5-C15)acetic acid, 2,3-epoxypropyl ester	QM = 1 mg/kg in FP (expressed as Epoxy group, Mw=43)
25380	-	Trialkyl acetic acid (C7-C17), vinyl esters (=vinyl versatate)	QMA = 0.05 mg/6 dm <sup>2</sup>
25385	000102-70-5	Triallylamine	In compliance with the specifications laid down in Annex V
25420	000108-78-1	2,4,6-Triamino-1,3,5-triazine	SML = 30 mg/kg
25450	026896-48-0	Tricyclodecanedimethanol	SML = 0.05 mg/kg
25510	000112-27-6	Triethyleneglycol	
25540	000528-44-9	Trimellitic acid	SML(T) = 5 mg/kg (35)
25550	000552-30-7	Trimellitic anhydride	SML(T) = 5mg/kg (35) (expressed as trimellitic acid)
25600	000077-99-6	1,1,1-Trimethylolpropane	SML = 6 mg/kg
25840	003290-92-4	1,1,1-Trimethylolpropane trimethacrylate	SML = 0.05 mg/kg
25900	000110-88-3	Trioxane	SML = 5 mg/kg
25910	024800-44-0	Tripropyleneglycol	
25927	027955-94-8	1,1,1-Tris(4-hydroxypheny l)ethane	QM = 0.5 mg/kg in FP. For use only in polycarbonates.
25960	000057-13-6	Urea	
26050	000075-01-4	Vinyl chloride	See Council Directive 78/142/EEC QM = 1 mg/kg in FP SML = ND (DL = 0.01 mg/kg)
26110	000075-35-4	Vinylidene chloride	QM = 5 mg/kg in FP or SML = ND (DL = 0.05 mg/kg)

Ref. No	CAS No	Name	Restrictions and/or specifications
(1)	(2)	(3)	(4)
26140	000075-38-7	Vinylidene fluoride	SML = 5 mg/kg
26155	001072-63-5	1-Vinylimidazole	QM = 5 mg/kg in FP
26170	003195-78-6	N-Vinyl-N-methylacetamide	QM = 2 mg/kg in FP
26305	000078-08-0	Vinyltriethoxysilane	SML = 0.05 mg/kg. Only to be used as a surface treatment agent'
26320	002768-02-7	Vinyltrimethoxysilane	QM = 5 mg/kg in FP
26360	007732-18-5	Water	In compliance with the Directive 98/83/EC.
<b>ADDITIVES</b>			
30000	000064-19-7	Acetic acid	
30045	000123-86-4	Acetic acid, butyl ester	
30080	004180-12-5	Acetic acid, copper salt	SML(T) = 5 mg/kg (7) (expressed as Copper)
30140	000141-78-6	Acetic acid, ethyl ester	
30180	002180-18-9	Acetic acid, manganese salt	SML(T) = 0.6 mg/kg (10) (expressed as Manganese)
30280	000108-24-7	Acetic anhydride	
30295	000067-64-1	Acetone	
30370	-	Acetylacetic acid, salts	
30401	-	Acetylated mono- and diglycerides of fatty acids	
30610	-	Acids C2-C24 aliphatic, linear, monocarboxylic from natural oils and fats and their mono-, di- and triglycerol esters (branched fatty acids at naturally occurring levels are included).	
30612	-	Acids C2-C24 aliphatic, linear, monocarboxylic, synthetic and their mono-, di- and triglycerol esters	
30960	-	Acids, aliph., monocarb. (C6-C22) esters with polyglycerol	
31328	-	Acids, fatty from animal or vegetable food fats and oils	
31500	025134-51-4	Acrylic acid, acrylic acid, 2-ethylhexyl ester, copolymer	SML(T) = 6 mg/kg (36)(expressed as acrylic acid) and SML = 0.05 mg/kg (expressed as acrylic acid, 2-ethylhexyl ester)
31520	061167-58-6	Acrylic acid, 2-tert-butyl-6-(3-tert-butyl-2-hydroxy-5-methylbenzyl)-4-methylphenyl ester	SML = 6 mg/kg
31530	123968-25-2	Acrylic acid, 2,4-di-tert-pentyl-6-[1-(3,5-di-tert-pentyl-2-hydroxyphenyl)ethyl]phenyl ester	SML = 5 mg/kg
31542	174254-23-0	Acrylic acid, methyl ester, telomer with 1-dodecanethiol, C16-C18 alkyl esters	QM=0.5% (w/w) in FP
31730	000124-04-9	Adipic acid	
31920	000103-23-1	Adipic acid, bis(2-ethylhexyl) ester	SML = 18 mg/kg (1)
33120	-	Alcohols, aliph, monoh., sat., linear, primary (C4-C24)	
33350	009005-32-7	Alginate acid	
33801	-	n-Alkyl(C10-C13)benzenesulphonic acid	SML = 30 mg/kg
34130	---	Alkyl, linear with even number of carbon atoms (C12-C20) dimethylamines	SML = 30 mg/kg

Ref. No	CAS No	Name	Restrictions and/or specifications
(1)	(2)	(3)	(4)
34230	-	Alkyl(C8-C22)sulphonic acids	SML = 6 mg/kg
34240	-	Alkyl(C10-C20)sulphonic acid, esters with phenols	SML = 6 mg/kg. Authorised until 1 January 2002
34281	-	Alkyl(C8-C22)sulphuric acids, linear, primary, with an even number of carbon atoms	
34475	-	Aluminium calcium hydroxide phosphite, hydrate	
34480	-	Aluminium fibers, flakes and powders	
34560	021645-51-2	Aluminium hydroxide	
34650	151841-65-5	Aluminium hydroxybis [2,2'-methylenebis (4,6-di-tert.butylphenyl) phosphate	SML = 5 mg/kg
34690	011097-59-9	Aluminium magnesium carbonate hydroxide	
34720	001344-28-1	Aluminium oxide	
34850	143925-92-2	Amines, bis(hydrogenated tallow alkyl) oxidised	QM = For use only : (a) in PO at 0.1% (w/w) but not in LDPE when it is in contact with foods for which the Directive 85/572/EEC establishes a RF< 3; (b) in PET at 0.25 % (w/w) in contact with foods other of those for which simulant D is laid down in Directive 85/572/EEC.
34895	000088-68-6	2-Aminobenzamide	SML = 0.05 mg/kg. To be used only for PET for water and beverages.
35120	013560-49-1	3-Aminocrotonic acid, diester with thiobis (2-hydroxyethyl) ether	
35160	006642-31-5	6-Amino-1,3-dimethyluracil	SML = 5 mg/kg
35170	000141-43-5	2-Aminoethanol	SML = 0.05 mg/kg. Not for use in polymers contacting foods for which simulant D is laid down in Directive 85/572/EEC and for indirect food contact only, behind the PET layer
35284	000111-41-1	N-(2-Aminoethyl)ethanolamine	SML = 0.05 mg/kg. Not for use in polymers contacting foods for which simulant D is laid down in Directive 85/572/EEC and for indirect food contact only, behind the PET layer.
35320	007664-41-7	Ammonia	
35440	012124-97-9	Ammonium bromide	
35600	001336-21-6	Ammonium hydroxide	
35760	001309-64-4	Antimony trioxide	SML = 0.04 mg/kg (39) (expressed as Antimony)
35840	000506-30-9	Arachidic acid	
35845	007771-44-0	Arachidonic acid	
36000	000050-81-7	Ascorbic acid	
36080	000137-66-6	Ascorbyl palmitate	
36160	010605-09-1	Ascorbyl stearate	
36640	000123-77-3	Azodicarbonamide	Use prohibited as from 2. August 2005. See Directive 2004/1/EC.
36720	017194-00-2	Barium hydroxide	SML(T) = 1 mg/kg (12) (expressed as Barium)

Ref. No	CAS No	Name	Restrictions and/or specifications
(1)	(2)	(3)	(4)
36800	010022-31-8	Barium nitrate	SML(T) = 1 mg/kg (12) (expressed as Barium)
36840	012007-55-5	Barium tetraborate	SML(T) = 1 mg/kg expressed as Barium (12) and SML(T) = 6 mg/kg (23) (expressed as Boron) without prejudice to the provisions of Directive 98/83/EC on water for human consumption (OJ L 330, 5.12.1998, p.32).
36880	008012-89-3	Beeswax	
36960	003061-75-4	Behenamamide	
37040	000112-85-6	Behenic acid	
37280	001302-78-9	Bentonite	
37360	000100-52-7	Benzaldehyde	In compliance with note 9 in Annex VI
37600	000065-85-0	Benzoic acid	
37680	000136-60-7	Benzoic acid, butyl ester	
37840	000093-89-0	Benzoic acid, ethyl ester	
38000	000553-54-8	Benzoic acid, lithium salt	SML(T) = 0.6 mg/kg (8) (expressed as Lithium)
38080	000093-58-3	Benzoic acid, methyl ester	
38160	002315-68-6	Benzoic acid, propyl ester	
38240	000119-61-9	Benzophenone	SML = 0.6 mg/kg
38505	351870-33-2	cis-endo-Bicyclo[2.2.1]heptane-2,3-dicarboxylic acid, disodium salt	SML = 5 mg/kg. Not to be used with polyethylene in contact with acidic foods. Purity $\geq$ 96 %
38510	136504-96-6	1,2-Bis(3-aminopropyl)ethylenediamine, polymer with N-butyl-2,2,6,6-tetramethyl-4-piperidinamine and 2,4,6-trichloro-1,3,5-triazine	SML = 5 mg/kg
38515	001533-45-5	4,4'-Bis(2-benzoxazolyl)stilbene	SML = 0.05 mg/kg (1)
38560	007128-64-5	2,5-Bis(5-tert-butyl-2-benzoxazolyl)thiophene	SML = 0.6 mg/kg
38700	063397-60-4	Bis(2-carbobutoxyethyl)tin-bis(isooctyl mercaptoacetate)	SML = 18 mg/kg
38800	032687-78-8	N,N'-Bis(3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionyl)hydrazide	SML = 15 mg/kg
38810	080693-00-1	Bis(2,6-di-tert-butyl-4-methylphenyl)pentaerythritol diphosphite	SML = 5 mg/kg (sum of phosphite and phosphate)
38820	026741-53-7	Bis(2,4-di-tert-butylphenyl)pentaerythritoldiphosphite	SML = 0.6 mg/kg
38840	154862-43-8	Bis(2,4-dicumylphenyl)pentaerythritol-diphosphite	SML = 5 mg/kg (as sum of the substance itself, its oxidised form bis(2,4-dicumylphenyl)pentaerythritol-phosphate and its hydrolysis product (2,4-dicumylphenol)).
38875	002162-74-5	Bis(2,6-diisopropylphenyl) carbodiimide	SML = 0.05 mg/kg. For use behind a PET layer
38879	135861-56-2	Bis(3,4-dimethylbenzylidene)sorbitol	
38885	002725-22-6	2,4-Bis(2,4-dimethylphenyl)-6-(2-hydroxy-4-n-octyloxyphenyl)-1,3,5-triazine	SML = 0,05 mg/kg. For aqueous foods only.
38940	110675-26-8	2,4-Bis(dodecylthiomethyl)-6-methylphenol	SML(T) = 5 mg/kg (40)

Ref. No	CAS No	Name	Restrictions and/or specifications
(1)	(2)	(3)	(4)
38950	079072-96-1	Bis(4-ethylbenzylidene)sorbitol	
39060	035958-30-6	1,1-Bis(2-hydroxy-3,5-di-tert-butylphenyl)ethane	SML = 5 mg/kg
39090	-	N,N-Bis(2-hydroxyethyl)alkyl(C8-C 18)amine	SML(T) = 1.2 mg/kg (13)
39120	-	N,N-Bis(2-hydroxyethyl)alkyl(C8-C 18)amine hydrochlorides	SML(T) = 1.2 mg/kg (13) expressed as tertiary amine (expressed excluding HCl)
39200	006200-40-4	Bis(2-hydroxyethyl)-2-hydroxypropyl-3-(dodecyloxy)methylammonium chloride	SML = 1.8 mg/kg
39680	000080-05-7	2,2-Bis(4-hydroxyphenyl)propane	SML= 0.6 mg/kg (28)
39700	001675-54-3	2,2-Bis(4-hydroxyphenyl)propane bis(2,3-epoxypropyl) ether (=BADGE)	According to Commission Regulation (EC) No 1895/2005 of 18 November 2005 on the restriction of use of certain epoxy derivatives in materials and articles intended to come into contact with food.
39815	182121-12-6	9,9-Bis(methoxymethyl)fluorene	SML= 0.05 mg/kg
39890	087826-41-3 and 069158-41-4 and 054686-97-4/081541-12-0	Bis(methylbenzylidene) sorbitol	
39925	129228-21-3	3,3-Bis(methoxymethyl)-2,5-dimethylhexane	SML = 0.05 mg/kg
40000	000991-84-4	2,4-Bis(octylmercapto)-6-(4-hydroxy-3,5-di-tert-butylanilino)-1,3,5-triazine	SML = 30 mg/kg
40020	110553-27-0	2,4-Bis(octylthiomethyl)-6-methylphenol	SML(T) = 5 mg/kg (40)
40120	-	Bis(polyethyleneglycol)hydroxymethylphosphate	SML = 0.6 mg/kg
40160	061269-61-2	N,N'-Bis(2,2,6,6-tetramethyl-4-piperidyl)hexamethylenediamine-1,2-dibromoethane, copolymer	SML = 2.4 mg/kg
40320	010043-35-3	Boric acid	SML(T) = 6 mg/kg (23) (expressed as Boron) without prejudice to the provisions of Directive 98/83/EC on water for human consumption.
40400	010043-11-5	Boron nitride	
40570	000106-97-8	Butane	
40580	000110-63-4	1,4-Butanediol	SML(T) = 5 mg/kg (24)
40720	025013-16-5	tert-Butyl-4-hydroxyanisole (=BHA)	SML = 30 mg/kg
40800	013003-12-8	4,4'-Butylidene-bis(6-tert-butyl-3-methylphenyl-ditridecyl phosphite)	SML = 6 mg/kg
40980	019664-95-0	Butyric acid, manganese salt	SML(T) = 0.6 mg/kg (10) (expressed as Manganese)
41040	005743-36-2	Calcium butyrate	
41120	010043-52-4	Calcium chloride	
41280	001305-62-0	Calcium hydroxide	
41520	001305-78-8	Calcium oxide	
41600	012004-14-7 and	Calcium sulphoaluminate	

Ref. No	CAS No	Name	Restrictions and/or specifications
(1)	(2)	(3)	(4)
	037293-22-4		
41680	000076-22-2	Camphor	In compliance with note 9 in Annex VI
41760	008006-44-8	Candelilla wax	
41840	000105-60-2	Caprolactam	SML(T) = 15 mg/kg (5)
41960	000124-07-2	Caprylic acid	
42000	063438-80-2	(2-Carbobutoxyethyl)tin-tris(isooctyl mercaptoacetate)	SML = 30 mg/kg
42080	001333-86-4	Carbon black	In compliance with the specifications laid down in Annex V.
42160	000124-38-9	Carbon dioxide	
42320	007492-68-4	Carbonic acid, copper salt	SML(T) = 5 mg/kg (7) (expressed as Copper)
42400	010377-37-4	Carbonic acid, lithium salt	SML(T) = 0.6 mg/kg (8) (expressed as Lithium)
42480	000584-09-8	Carbonic acid, rubidium salt	SML = 12 mg/kg
42500	-	Carbonic acid, salts	
42640	009000-11-7	Carboxymethylcellulose	
42720	008015-86-9	Carnauba wax	
42800	009000-71-9	Casein	
42880	008001-79-4	Castor oil	
42960	064147-40-6	Castor oil, dehydrated	
43200	-	Castor oil, mono- and diglycerides	
43280	009004-34-6	Cellulose	
43300	009004-36-8	Cellulose acetate butyrate	
43360	068442-85-3	Cellulose, regenerated	
43440	008001-75-0	Ceresin	
43480	064365-11-3	Charcoal, activated	In compliance with the specifications laid down in Annex V.
43515	-	Chlorides of choline esters of coconut oil fatty acids	QMA = 0.9 mg/6 dm <sup>2</sup>
43600	004080-31-3	1-(3-Chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride	SML = 0.3 mg/kg
43680	000075-45-6	Chlorodifluoromethane	SML = 6 mg/kg and in compliance with the specifications laid down in Annex V.
44160	000077-92-9	Citric acid	
44640	000077-93-0	Citric acid, triethyl ester	
44960	011104-61-3	Cobalt oxide	SML(T) = 0.05 mg/kg (14) (expressed as Cobalt)
45195	007787-70-4	Copper bromide	SML(T) = 5 mg/kg (7) (expressed as Copper)
45200	001335-23-5	Copper iodide	SML(T) = 5 mg/kg (7) (expressed as copper) and SML = 1 mg/kg (11) (expressed as iodine)
45280	-	Cotton fibers	
45440	-	Cresols, butylated, styrenated	SML = 12 mg/kg
45450	068610-51-5	p-Cresol-dicyclopentadiene-isobutylene,	SML = 5 mg/kg



Ref. No	CAS No	Name	Restrictions and/or specifications
(1)	(2)	(3)	(4)
		copolymer	
45560	014464-46-1	Cristobalite	
45600	003724-65-0	Crotonic acid	QMA(T) = 0.05 mg/6dm <sup>2</sup> (33)
45640	005232-99-5	2-Cyano-3,3-diphenylacrylic acid, ethyl ester	SML = 0.05 mg/kg
45650	006197-30-4	2-Cyano-3,3-diphenylacrylic acid, 2-ethylhexyl ester	SML = 0.05 mg/kg
45703	491589-22-1	cis-1,2-Cyclohexanedicarboxylic acid, calcium salt	SML= 5 mg/kg
45705	166412-78-8	1,2-cyclohexanedicarboxylic acid, diisononyl ester	
45760	000108-91-8	Cyclohexylamine	
45920	009000-16-2	Dammar	
45940	000334-48-5	n-Decanoic acid	
46070	010016-20-3	alpha-Dextrin	
46080	007585-39-9	beta-Dextrin	
46375	061790-53-2	Diatomaceous earth	
46380	068855-54-9	Diatomaceous earth, soda ash flux-calcined	
46480	032647-67-9	Dibenzylidene sorbitol	
46640	000128-37-0	2,6-Di-tert-butyl-p-cresol (=BHT)	SML = 3.0 mg/kg
46700	-	5,7-di-tert-Butyl-3-(3,4- and 2,3-dimethylphenyl)-3H-benzofuran-2-one containing: a) 5,7-di-tert-butyl-3-(3,4-dimethylphenyl)-3H-benzofuran-2-one (80 to 100% w/w) and b) 5,7-di-tert-butyl-3-(2,3-dimethylphenyl)-3H-benzofuran-2-one (0 to 20% w/w)	SML = 5 mg/kg
46720	004130-42-1	2,6-Di-tert-butyl-4-ethylphenol	QMA = 4.8 mg/6 dm <sup>2</sup>
46790	004221-80-1	3,5-Di-tert-butyl-4-hydroxybenzoic acid, 2,4-di-tert-butylphenyl ester	
46800	067845-93-6	3,5-Di-tert-butyl-4-hydroxybenzoic acid, hexadecyl ester	
46870	003135-18-0	3,5-Di-tert-butyl-4-hydroxybenzylphosphonic acid, dioctadecyl ester	
46880	065140-91-2	3,5-Di-tert-butyl-4-hydroxybenzylphosphonic acid, monoethyl ester, calcium salt	SML = 6 mg/kg
47210	026427-07-6	Dibutylthiostannoic acid polymer [= thiobis(butyl-tin sulphide), polymer]	in compliance with the specifications laid down in Annex V.
47440	000461-58-5	Dicyanodiamide	
47500	153250-52-3	N,N'-Dicyclohexyl-2,6-naphthalene dicarboxamide	SML = 5 mg/kg.
47540	027458-90-8	Di-tert-dodecyl disulphide	SML = 0.05 mg/kg
47600	084030-61-5	Di-n-dodecyltin bis(isooctyl mercaptoacetate)	SML(T) = 0,05 mg/kg food (41) (as sum of mono-n-dodecyltin tris(isooctyl mercaptoacetate), di-n- dodecyltin bis(isooctyl mercaptoacetate), mono-dodecyltin trichloride and di-dodecyltin dichloride) expressed as the sum of mono- and di-dodecyltin chloride
47680	000111-46-6	Diethyleneglycol	SML(T) = 30 mg/kg (3)
48460	000075-37-6	1,1-Difluoroethane	
48620	000123-31-9	1,4-Dihydroxybenzene	SML = 0.6 mg/kg
48640	000131-56-6	2,4-Dihydroxybenzophenone	SML(T) = 6 mg/kg (15)

Ref. No	CAS No	Name	Restrictions and/or specifications
(1)	(2)	(3)	(4)
48720	000611-99-4	4,4'-Dihydroxybenzophenone	SML(T) = 6 mg/kg (15)
48800	000097-23-4	2,2'-Dihydroxy-5,5'-dichlorodiphenylmethane	SML = 12 mg/kg
48880	000131-53-3	2,2'-Dihydroxy-4-methoxybenzophenone	SML(T) = 6 mg/kg (15)
48960	---	9,10-dihydroxy stearic acid and its oligomers	SML= 5 mg/kg
49485	134701-20-5	2,4-Dimethyl-6-(1-methylpentadecyl)-phenol	SML = 1 mg/kg
49540	000067-68-5	Dimethyl sulphoxide	
49595	057583-35-4	Dimethyltin bis(ethylhexyl mercaptoacetate)	SML(T) = 0.18 mg/kg (16) (expressed as Tin)
49600	026636-01-1	Dimethyltin bis(isooctyl mercaptoacetate)	SML(T) = 0.18 mg/kg (16) (expressed as Tin)
49840	002500-88-1	Dioctadecyl disulphide	SML = 3 mg/kg
50160	-	Di-n-octyltin bis(n-alkyl(C10-C16) mercaptoacetate)	SML(T) = 0.006 mg/kg (17) (expressed as Tin)
50240	010039-33-5	Di-n-octyltin bis(2-ethylhexyl maleate)	SML(T) = 0.006 mg/kg (17) (expressed as Tin)
50320	015571-58-1	Di-n-octyltin bis(2-ethylhexyl mercaptoacetate)	SML(T) = 0.006 mg/kg (17) (expressed as Tin)
50360	-	Di-n-octyltin bis(ethyl maleate)	SML(T) = 0.006 mg/kg (17) (expressed as Tin)
50400	033568-99-9	Di-n-octyltin bis(isooctyl maleate)	SML(T) = 0.006 mg/kg (17) (expressed as Tin)
50480	026401-97-8	Di-n-octyltin bis(isooctyl mercaptoacetate)	SML(T) = 0.006 mg/kg (17) (expressed as Tin)
50560	-	Di-n-octyltin 1,4-butanediol bis(mercaptoacetate)	SML(T) = 0.006 mg/kg (17) (expressed as Tin)
50640	003648-18-8	Di-n-octyltin dilaurate	SML(T) = 0.006 mg/kg (17) (expressed as Tin)
50720	015571-60-5	Di-n-octyltin dimaleate	SML(T) = 0.006 mg/kg (17) (expressed as Tin)
50800	-	Di-n-octyltin dimaleate, esterified	SML(T) = 0.006 mg/kg (17) (expressed as Tin)
50880	-	Di-n-octyltin dimaleate, polymers (n=2-4)	SML(T) = 0.006 mg/kg (17) (expressed as Tin)
50960	069226-44-4	Di-n-octyltin ethyleneglycol bis(mercaptoacetate)	SML(T) = 0.006 mg/kg (17) (expressed as Tin)
51040	015535-79-2	Di-n-octyltin mercaptoacetate	SML(T) = 0.006 mg/kg (17) (expressed as Tin)
51120	-	Di-n-octyltin thiobenzoate 2-ethylhexyl mercaptoacetate	SML(T) = 0.006 mg/kg (17) (expressed as Tin)
51200	000126-58-9	Dipentaerythritol	
51570	000127-63-9	Diphenyl sulphone	SML(T) = 3 mg/kg (25)
51680	000102-08-9	N,N'-Diphenylthiourea	SML = 3 mg/kg
51700	147315-50-2	2-(4,6-Diphenyl-1,3,5-triazin-2-yl)-5-(hexyloxy)phenol	SML = 0.05 mg/kg
51760	025265-71-8 and 000110-98-5	Dipropyleneglycol	
52000	027176-87-0	Dodecylbenzenesulphonic acid	SML = 30 mg/kg
52320	052047-59-3	2-(4-Dodecylphenyl)indole	SML = 0.06 mg/kg
52640	016389-88-1	Dolomite	
52645	010436-08-5	cis-11-Eicosenamide	
52720	000112-84-5	Erucamide	
52730	000112-86-7	Erucic acid	

Ref. No	CAS No	Name	Restrictions and/or specifications
(1)	(2)	(3)	(4)
52800	000064-17-5	Ethanol	
52880	023676-09-7	4-Ethoxybenzoic acid, ethyl ester	SML = 3.6 mg/kg
53200	023949-66-8	2-Ethoxy-2'-ethyloxanilide	SML = 30 mg/kg
53270	037205-99-5	Ethylcarboxymethylcellulose	
53280	009004-57-3	Ethylcellulose	
53360	000110-31-6	N,N'-Ethylenebisoleamide	
53440	005518-18-3	N,N'-Ethylenebispalmitamide	
53520	000110-30-5	N,N'-Ethylenebissreamide	
53600	000060-00-4	Ethylenediaminetetraacetic acid	
53610	054453-03-1	Ethylenediaminetetraacetic acid, copper salt	SML(T) = 5 mg/kg (7) (expressed as Copper)
53650	000107-21-1	Ethyleneglycol	SML(T) = 30 mg/kg (3)
53670	032509-66-3	Ethylene glycol bis[3,3-bis(3-tert-butyl-4-hydroxyphenyl)butyrate]	SML= 6 mg/kg'
54005	005136-44-7	Ethylene-N-palmitamide-N'-stearamide	
54260	009004-58-4	Ethylhydroxyethylcellulose	
54270	-	Ethylhydroxymethylcellulose	
54280	-	Ethylhydroxypropylcellulose	
54300	118337-09-0	2,2'-Ethylidenebis(4,6-di-tert-butyl phenyl) fluorophosphonite	SML = 6 mg/kg
54450	-	Fats and oils, from animal or vegetable food sources	
54480	-	Fats and oils, hydrogenated, from animal or vegetable food sources	
54880	000050-00-0	Formaldehyde	SML(T) = 15 mg/kg (22)
54930	025359-91-5	Formaldehyde-1-naphthol copolymer [=poly(1-hydroxynaphthylmethane)]	SML = 0.05 mg/kg
55040	000064-18-6	Formic acid	
55120	000110-17-8	Fumaric acid	
55190	029204-02-2	Gadoleic acid	
55200	001166-52-5	Gallic acid, dodecyl ester	SML(T) = 30 mg/kg (34)
55280	001034-01-1	Gallic acid, octyl ester	SML(T) = 30 mg/kg (34)
55360	000121-79-9	Gallic acid, propyl ester	SML(T) = 30 mg/kg (34)
55440	009000-70-8	Gelatin	
55520	-	Glass fibers	
55600	-	Glass microballs	
55680	000110-94-1	Glutaric acid	
55910	736150-63-3	Glycerides, castor-oil mono-, hydrogenated, acetates	
55920	000056-81-5	Glycerol	
56020	099880-64-5	Glycerol dibehenate	
56360	-	Glycerol esters with acetic acid	
56486	-	Glycerol, esters with acids, aliph.,sat., linear with an even number of carbon atoms (C14-C18) and with acids aliph., unsat., linear, with an even number of carbon atoms (C16-C18)	
56487	-	Glycerol esters with butyric acid	
56490	-	Glycerol, esters with erucic acid	
56495	-	Glycerol esters with 12-hydroxystearic acid	
56500	-	Glycerol, esters with lauric acid	
56510	-	Glycerol, esters with linoleic acid	

Ref. No	CAS No	Name	Restrictions and/or specifications
(1)	(2)	(3)	(4)
56520	-	Glycerol, esters with myristic acid	
56535	-	Glycerol, esters with nonanoic acid	
56540	-	Glycerol, esters with oleic acid	
56550	-	Glycerol, esters with palmitic acid	
56570	-	Glycerol, esters with propionic acid	
56580	-	Glycerol, esters with ricinoleic acid	
56585	-	Glycerol, esters with stearic acid	
56610	030233-64-8	Glycerol monobehenate	
56720	026402-23-3	Glycerol monohexanoate	
56800	030899-62-8	Glycerol monolaurate diacetate	
56880	026402-26-6	Glycerol monoctanoate	
57040	-	Glycerol monooleate, ester with ascorbic acid	
57120	-	Glycerol monooleate, ester with citric acid	
57200	-	Glycerol monopalmitate, ester with ascorbic acid	
57280	-	Glycerol monopalmitate, ester with citric acid	
57600	-	Glycerol monostearate, ester with ascorbic acid	
57680	-	Glycerol monostearate, ester with citric acid	
57800	018641-57-1	Glycerol tribehenate	
57920	000620-67-7	Glycerol triheptanoate	
58300	-	Glycine, salts	
58320	007782-42-5	Graphite	
58400	009000-30-0	Guar gum	
58480	009000-01-5	Gum arabic	
58720	000111-14-8	Heptanoic acid	
58960	000057-09-0	Hexadecyltrimethylammonium bromide	SML = 6 mg/kg
59120	023128-74-7	1,6-Hexamethylene-bis(3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionamide)	SML = 45 mg/kg
59200	035074-77-2	1,6-Hexamethylene-bis(3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate)	SML = 6 mg/kg
59280	000100-97-0	Hexamethylenetetramine	SML(T) = 15 mg/kg (22) (35)(expressed as Formaldehyde)
59360	000142-62-1	Hexanoic acid	
59760	019569-21-2	Huntite	
59990	007647-01-0	Hydrochloric acid	
60025	---	Hydrogenated homopolymers and/or copolymers made of 1-decene and/or 1-dodecene and/or 1-octene	In compliance with the specifications laid down in Annex V. Not to be used for articles in contact with fatty foods.
60030	012072-90-1	Hydromagnesite	
60080	012304-65-3	Hydrotalcite	
60160	000120-47-8	4-Hydroxybenzoic acid, ethyl ester	
60180	004191-73-5	4-Hydroxybenzoic acid, isopropyl ester	
60200	000099-76-3	4-Hydroxybenzoic acid, methyl ester	
60240	000094-13-3	4-Hydroxybenzoic acid, propyl ester	
60320	070321-86-7	2-[2-Hydroxy-3,5-bis(1,1-dimethylbenzyl)phenyl]benzotriazole	SML = 1.5 mg/kg
60400	003896-11-5	2-(2'-Hydroxy-3'-tert-butyl-5'-methylphenyl)-5-chlorobenzotriazole	SML(T) = 30 mg/kg (19)
60480	003864-99-1	2-(2'-Hydroxy-3,5'-di-tert-butylphenyl)-5-chlorobenzotriazole	SML(T) = 30 mg/kg (19)

Ref. No	CAS No	Name	Restrictions and/or specifications
(1)	(2)	(3)	(4)
60560	009004-62-0	Hydroxyethylcellulose	
60800	065447-77-0	1-(2-Hydroxyethyl)-4-hydroxy-2,2,6,6-tetramethyl piperidine-succinic acid, dimethyl ester, copolymer	SML = 30 mg/kg
60880	009032-42-2	Hydroxyethylmethylcellulose	
61120	009005-27-0	Hydroxyethyl starch	
61280	003293-97-8	2-Hydroxy-4-n-hexyloxybenzophenone	SML(T) = 6 mg/kg (15)
61360	000131-57-7	2-Hydroxy-4-methoxybenzophenone	SML(T) = 6 mg/kg (15)
61390	037353-59-6	Hydroxymethylcellulose	
61440	002440-22-4	2-(2'-Hydroxy-5'-methylphenyl)benzotriazole	SML(T) = 30 mg/kg (19)
61600	001843-05-6	2-Hydroxy-4-n-octyloxybenzophenone	SML(T) = 6 mg/kg (15)
61680	009004-64-2	Hydroxypropylcellulose	
61800	009049-76-7	Hydroxypropyl starch	
61840	000106-14-9	12-Hydroxystearic acid	
62020	007620-77-1	12-Hydroxystearic acid, lithium salt	SML(T) = 0,6 mg/kg (8) (expressed as lithium)
62140	006303-21-5	Hypophosphorous acid	
62240	001332-37-2	Iron oxide	
62245	012751-22-3	Iron phosphide	For PET polymers and copolymers only.
62280	009044-17-1	Isobutylene-butene copolymer	
62450	000078-78-4	Isopentane	
62640	008001-39-6	Japan wax	
62720	001332-58-7	Kaolin	
62800	-	Kaolin, calcined	
62960	000050-21-5	Lactic acid	
63040	000138-22-7	Lactic acid, butyl ester	
63200	051877-53-3	Lactic acid, manganese salt	SML(T) = 0.6 mg/kg (10) (expressed as Manganese)
63280	000143-07-7	Lauric acid	
63760	008002-43-5	Lecithin	
63840	000123-76-2	Levulinic acid	
63920	000557-59-5	Lignoceric acid	
63940	008062-15-5	Lignosulphonic acid	SML= 0.24 mg/kg and to be used only as dispersant for plastics dispersions
64015	000060-33-3	Linoleic acid	
64150	028290-79-1	Linolenic acid	
64320	010377-51-2	Lithium iodide	SML(T) = 1 mg/kg (11) (expressed as Iodine) and SML(T) = 0.6 mg/kg (8) (expressed as Lithium)
64500	-	Lysine, salts	
64640	001309-42-8	Magnesium hydroxide	
64720	001309-48-4	Magnesium oxide	
64800	000110-16-7	Maleic acid	SML(T) = 30 mg/kg (4)
64990	025736-61-2	Maleic anhydride-styrene, copolymer, sodium salt	In compliance with specifications laid down in Annex V.
65020	006915-15-7	Malic acid	

Ref. No	CAS No	Name	Restrictions and/or specifications
(1)	(2)	(3)	(4)
65040	000141-82-2	Malonic acid	
65120	007773-01-5	Manganese chloride	SML(T) = 0.6 mg/kg (10) (expressed as Manganese)
65200	012626-88-9	Manganese hydroxide	SML(T) = 0.6 mg/kg (10) (expressed as Manganese)
65280	010043-84-2	Manganese hypophosphite	SML(T) = 0.6 mg/kg (10) (expressed as Manganese)
65360	011129-60-5	Manganese oxide	SML(T) = 0.6 mg/kg (10) (expressed as Manganese)
65440	-	Manganese pyrophosphite	SML(T) = 0.6 mg/kg (10) (expressed as Manganese)
65520	000087-78-5	Mannitol	
65920	066822-60-4	[N-Methacryloyloxyethyl-N,N-dimethyl-N-carboxymethylammonium chloride, sodium salt -octadecyl methacrylate-ethyl methacrylate-cyclohexyl methacrylate-N-vinyl-2-pyrrolidone, copolymers	
66200	037206-01-2	Methylcarboxymethylcellulose	
66240	009004-67-5	Methylcellulose	
66350	085209-93-4	2,2'-Methylenebis(4,6-di-tert-butylphenyl) lithium phosphate	SML = 5 mg/kg and SML(T)= 0.6 (8) (expressed as Lithium)
66360	085209-91-2	2,2'-Methylene bis(4,6-di-tert-butylphenyl) sodium phosphate	SML = 5 mg/kg
66400	000088-24-4	2,2'-Methylene bis(4-ethyl-6-tert-butylphenol)	SML(T) = 1.5 mg/kg (20)
66480	000119-47-1	2,2'-Methylene bis(4-methyl-6-tert-butylphenol)	SML(T) = 1.5 mg/kg (20)
66560	004066-02-8	2,2'-Methylenebis(4-methyl-6-cyclohexylphenol)	SML(T) = 3 mg/kg (6)
66580	000077-62-3	2,2'-Methylenebis(4-methyl-6-(1-methyl-cyclohexyl) phenol)	SML(T) = 3 mg/kg (6)
66640	009004-59-5	Methylethylcellulose	
66695	-	Methylhydroxymethylcellulose	
66700	009004-65-3	Methylhydroxypropylcellulose	
66755	002682-20-4	2-Methyl-4-isothiazolin-3-one	SML= 0.5 mg/kg. Only to be used in aqueous polymer dispersions and emulsions and at concentrations which do not result in an anti-microbial effect at the surface of the polymer or on the food itself.
66905	000872-50-4	N-Methylpyrrolidone	
66930	068554-70-1	Methylsilsesquioxane	Residual monomer in methylsilsesquioxane:< 1mg methyltrimethoxysilane / kg of methylsilsesquioxane
67120	012001-26-2	Mica	
67155	-	Mixture of 4-(2-Benzoxazolyl)-4'-(5-methyl-2-benzoxazolyl)stilbene, 4,4'-bis(2-benzoxazolyl) stilbene and 4,4'-bis(5-methyl-2-benzoxazolyl)stilbene)	Not more than 0.05% w/w (quantity of substance used/quantity of the formulation). In compliance with the specifications laid down in annex V

Ref. No	CAS No	Name	Restrictions and/or specifications
(1)	(2)	(3)	(4)
67170	-	Mixture of (80 to 100% w/w) 5,7-di-tert-butyl-3-(3,4-dimethylphenyl)-2(3H)-benzofuranone and (0 to 20% w/w)5,7-di-tert-butyl-3-(2,3-dimethylphenyl)-2(3H)-benzofuranone	SML = 5 mg/kg
67180	—	Mixture of (50 % w/w) phthalic acid n-decyl n-octyl ester, (25 % w/w) phthalic acid di-n-decyl ester, (25 % w/w) phthalic acid di-n-octyl ester.	SML = 5 mg/kg (1)
67200	001317-33-5	Molybdenum disulphide	
67360	067649-65-4	Mono-n-dodecyltin tris(isooctyl mercaptoacetate)	SML(T) = 0,05 mg/kg food (41) (as sum of mono-n-dodecyltin tris(isooctyl mercaptoacetate), di-n- dodecyltin bis(isooctyl mercaptoacetate), mono-dodecyltin trichloride and di-dodecyltin dichloride) expressed as the sum of mono- and di-dodecyltin chloride
67515	057583-34-3	Monomethyltin tris(ethylhexyl mercaptoacetate)	SML(T) = 0.18 mg/kg (16) (expressed as Tin)
67520	054849-38-6	Monomethyltin tris(isooctyl mercaptoacetate)	SML(T) = 0.18 mg/kg (16) (expressed as Tin)
67600	-	Mono-n-octyltin tris(alkyl(C10-C16) mercaptoacetate)	SML(T) = 1.2 mg/kg (18) (expressed as Tin)
67680	027107-89-7	Mono-n-octyltin tris(2-ethylhexyl mercaptoacetate)	SML(T) = 1.2 mg/kg (18) (expressed as Tin)
67760	026401-86-5	Mono-n-octyltin tris(isooctyl mercaptoacetate)	SML(T) = 1.2 mg/kg (18) (expressed as Tin)
67840	-	Montanic acids and/or their esters with ethyleneglycol and/or with 1,3-butanediol and/or with glycerol	
67850	008002-53-7	Montan wax	
67891	000544-63-8	Myristic acid	
67896	020336-96-3	Myristic acid, lithium salt	SML(T) = 0.6 mg/kg (8) (expressed as Lithium)
68040	003333-62-8	7-(2H-Naphtho-(1,2-D)triazol-2-yl)-3-phenylcoumarin	
68078	027253-31-2	Neodecanoic acid, cobalt salt	SML(T) = 0.05 mg/kg (expressed as Neodecanoic acid) and SML(T) = 0.05 mg/kg (14) (expressed as Cobalt). Not for use in polymers contacting foods for which simulant D is laid down in Directive 85/572/EEC.
68125	037244-96-5	Nepheline syenite	
68145	080410-33-9	2,2',2''-Nitriolo[triethyl tris(3,3',5,5'-tetra-tert-butyl-1,1'-bi-phenyl-2,2'-diyl)phosphite]	SML = 5 mg/kg (sum of phosphite and phosphate)
68320	002082-79-3	Octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	SML = 6 mg/kg
68400	010094-45-8	Octadecylrucamide	SML = 5 mg/kg
68860	004724-48-5	n-Octylphosphonic acid	SML = 0.05 mg/kg
68960	000301-02-0	Oleamide	
69040	000112-80-1	Oleic acid	

Ref. No	CAS No	Name	Restrictions and/or specifications
(1)	(2)	(3)	(4)
69160	014666-94-5	Oleic acid, cobalt salt	SML(T) = 0.05 mg/kg (14) (expressed as Cobalt).
69760	000143-28-2	Oleyl alcohol	
69840	016260-09-6	Oleylpalmitamide	SML = 5 mg/kg
69920	000144-62-7	Oxalic acid	SML(T) = 6 mg/kg (29)
Ref. No	CAS No	Name	Restrictions and/or specifications
(1)	(2)	(3)	(4)
70000	070331-94-1	2,2'-Oxamidobis[ethyl-3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]	
70240	012198-93-5	Ozokerite	
70400	000057-10-3	Palmitic acid	
70480	000111-06-8	Palmitic acid, butyl ester	
71020	000373-49-9	Palmitoleic acid	
71440	009000-69-5	Pectin	
71600	000115-77-5	Pentaerythritol	
71635	025151-96-6	Pentaerythritol dioleate	SML = 0.05 mg/kg. Not for use in polymers contacting foods for which simulant D is laid down in Directive 85/572/EEC.
71670	178671-58-4	Pentaerythritol tetrakis (2-cyano-3,3-diphenylacrylate)	SML = 0.05 mg/kg
71680	006683-19-8	Pentaerythritol tetrakis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)-propionate]	
71720	000109-66-0	Pentane	
71935	007601-89-0	Perchloric acid, sodium salt monohydrate	SML = 0.05 mg/kg (31)
71960	003825-26-1	Perfluorooctanoic acid, ammonium salt	Only to be used in repeated use articles, sintered at high temperatures.
72081/10	—	Petroleum hydrocarbon resins (hydrogenated)	In compliance with the specifications laid down in Annex V.'
72160	000948-65-2	2-Phenylindole	SML = 15 mg/kg
72640	007664-38-2	Phosphoric acid	
72800	001241-94-7	Phosphoric acid, diphenyl 2-ethylhexyl ester	SML = 2.4 mg/kg
73040	013763-32-1	Phosphoric acid, lithium salts	SML(T) = 0.6 mg/kg (8) (expressed as Lithium)
73120	010124-54-6	Phosphoric acid, manganese salt	SML(T) = 0.6 mg/kg (10) (expressed as Manganese)
73160	-	Phosphoric acid, mono- and di-n-alkyl (C16 and C18) esters	SML = 0.05 mg/kg
73720	000115-96-8	Phosphoric acid, trichloroethyl ester	SML = ND (DL = 0.02 mg/kg, analytical tolerance included)
74010	145650-60-8	Phosphorous acid, bis(2,4-di-tert.-butyl-6-methylphenyl) ethyl ester	SML = 5 mg/kg (sum of phosphite and phosphate)
74240	031570-04-4	Phosphorous acid, tris(2,4-di-tert-butylphenyl) ester	
74400	-	Phosphorous acid, tris(nonyl-and/or dinonylphenyl) ester	SML = 30 mg/kg
74480	000088-99-3	o-Phthalic acid	



Ref. No	CAS No	Name	Restrictions and/or specifications
(1)	(2)	(3)	(4)
74560	000085-68-7	Phthalic acid, benzyl butyl ester	To be used only as:(a) plasticizer in repeated use materials and articles; (b) plasticizer in single-use materials and articles contacting non-fatty foods except for infant formulae and follow-on formulae as defined by Directive 91/321/EEC and products according to Directive 96/5/EC; (c) technical support agent in concentrations up to 0,1 % in the final product. SML = 30 mg/kg food simulant.
74640	000117-81-7	Phthalic acid, bis (2-ethylhexyl) ester	To be used only as: (a) plasticizer in repeated use materials and articles contacting non-fatty foods; (b) technical support agent in concentrations up to 0,1 % in the final product. SML = 1,5 mg/kg food simulant.
74880	000084-74-2	Phthalic acid, dibutyl ester	To be used only as:(a) plasticizer in repeated use materials and articles contacting non-fatty foods; (b) technical support agent in poly-olefines in concentrations up to 0,05 % in the final product. SML = 0,3 mg/kg food simulant.
75100	068515-48-0 028553-12-0	Phthalic acid, diesters with primary, saturated C8-C10 branched alcohols, more than 60 % C9.	To be used only as:(a) plasticizer in repeated use materials and articles; (b) plasticizer in single-use materials and articles contacting non-fatty foods except for infant formulae and follow-on formulae as defined by Directive 91/321/EEC and products according to Directive 96/5/EC; (c) technical support agent in concentrations up to 0,1 % in the final product. SML(T) = 9 mg/kg food simulant (42).
75105	068515-49-1 026761-40-0	Phthalic acid, diesters with primary, saturated C9-C11 alcohols more than 90 % C10	To be used only as: (a) plasticizer in repeated use materials and articles; (b) plasticizer in single-use materials and articles contacting non-fatty foods except for infant formulae and follow-on formulae as defined by Directive 91/321/EEC and products according to Directive 96/5/EC; (c) technical support agent in concentrations up to 0,1 % in the final product. SML(T) = 9 mg/kg food simulant (42).
76320	000085-44-9	Phthalic anhydride	
76415	019455-79-9	Pimelic acid, calcium salt	
76463	---	Polyacrylic acid, salts	SML(T)= 6 mg/kg (36) (for acrylic acid)

Ref. No	CAS No	Name	Restrictions and/or specifications
(1)	(2)	(3)	(4)
76720	009016-00-6 and 063148-62-9	Polydimethylsiloxane	
76721	009016-00-6 and 063148-62-9	Polydimethylsiloxane (Mw> 6800)	In compliance with the specifications laid down in Annex V.
76723	167883-16-1	Polydimethylsiloxane, 3-aminopropyl terminated, polymer with dicyclohexylmethane- 4,4'-diisocyanate	In compliance with the specifications laid down in Annex V
76725	661476-41-1	Polydimethylsiloxane, 3-aminopropyl terminated, polymer with 1-isocyanato-3-isocyanatomethyl-3,5,5-trimethylcyclohexane	In compliance with the specifications laid down in Annex V
76730	-	Polydimethylsiloxane, gamma-hydroxypropylated	SML = 6 mg/kg
76815	-	Polyester of adipic acid with glycerol or pentaerythritol, esters with even numbered, unbranched C12-C22 fatty acids	In compliance with the specifications laid down in Annex V
76845	031831-53-5	Polyester of 1,4-butanediol with caprolactone	The restriction for Ref. No 14260 and Ref. No 13720 shall be respected. In compliance with the specifications laid down in Annex V.
76866	-	Polyesters of 1,2-propanediol and/or 1,3- and/or 1,4-butanediol and/or polypropyleneglycol with adipic acid, also end-capped with acetic acid or fatty acids C12-C18 or n-octanol and/or n-decanol	SML = 30 mg/kg
76960	025322-68-3	Polyethyleneglycol	
77370	070142-34-6	Polyethyleneglycol-30 dipolyhydroxy stearate	
77440	-	Polyethyleneglycol diricinoleate	SML = 42 mg/kg
77520	061791-12-6	Polyethyleneglycol ester of castor oil	SML = 42 mg/kg
77600	061788-85-0	Polyethyleneglycol ester of hydrogenated castor oil	
77702	-	Polyethyleneglycol esters of aliph. monocarb. acids (C6-C22) and their ammonium and sodium sulphates	
77732	---	Polyethylene glycol (EO=1-30, typically 5) ether of butyl 2-cyano 3-(4-hydroxy-3-methoxyphenyl) acrylate	SML= 0.05 mg/kg. Only for use in PET.
77733	---	Polyethyleneglycol (EO=1-30, typically 5) ether of butyl-2-cyano-3-(4-hydroxyphenyl) acrylate	SML= 0.05 mg/kg. Only for use in PET.
77895	068439-49-6	Polyethyleneglycol (EO=2-6)monoalkyl(C16-C18) ether	SML = 0.05 mg/kg and in compliance with the specifications laid down in Annex V
77897	---	Polyethyleneglycol (EO =1-50) monoalkylether (linear and branched, C8-C20) sulphate, salts	SML= 5 mg/kg
78320	009004-97-1	Polyethyleneglycol monoricinoleate	SML = 42 mg/kg
79040	009005-64-5	Polyethyleneglycol sorbitan monolaurate	
79120	009005-65-6	Polyethyleneglycol sorbitan monooleate	
79200	009005-66-7	Polyethyleneglycol sorbitan monopalmitate	
79280	009005-67-8	Polyethyleneglycol sorbitan monostearate	
79360	009005-70-3	Polyethyleneglycol sorbitan trioleate	
79440	009005-71-4	Polyethyleneglycol sorbitan tristearate	

Ref. No	CAS No	Name	Restrictions and/or specifications
(1)	(2)	(3)	(4)
79600	009046-01-9	Polyethyleneglycol tridecyl ether phosphate	SML = 5 mg/kg. For materials and articles intended for contact with aqueous foods only. In compliance with the specification laid down in Annex V.
79920	009003-11-6 106392-12-5	Poly(ethylene propylene) glycol	
80000	009002-88-4	Polyethylene wax	
80240	029894-35-7	Polyglycerol ricinoleate	
80640	-	Polyoxyalkyl(C2-C4)dimethylpolysiloxane	
80720	008017-16-1	Polyphosphoric acids	
80800	025322-69-4	Polypropyleneglycol	
81060	009003-07-0	Polypropylene wax	
81200	071878-19-8	Poly[6-[(1,1,3,3-tetramethylbutyl)amino] - 1,3,5-triazine-2,4-diyl]-[(2,2,6,6-tetramethyl-4-piperidyl)-imino]hexamethylene[(2,2,6,6-tetramethyl-4-piperidyl)imino]	SML = 3 mg/kg
81220	192268-64-7	Poly-[[6-[N-(2,2,6,6-tetramethyl-4-piperidiny)-n-butylamino]-1,3,5-triazine-2,4-diyl][(2,2,6,6-tetramethyl-4-piperidiny)imino] -1,6-hexanediyl[(2,2,6,6-tetramethyl-4-piperidiny)imino]]-alpha-[N,N,N',N'-tetrabutyl-N''-(2,2,6,6-tetramethyl-4-piperidiny)-N	SML = 5 mg/kg
81500	9003-39-8	Polyvinylpyrrolidone	In compliance with the specifications laid down in Annex V.
81515	087189-25-1	Poly(zinc glycerolate)	SML(T) = 25 mg/kg (38) (as Zinc)
81520	007758-02-3	Potassium bromide	
81600	001310-58-3	Potassium hydroxide	
81680	007681-11-0	Potassium iodide	SML(T) = 1 mg/kg (11) (expressed as Iodium)
81760	—	Powders, flakes and fibres of brass, bronze, copper, stainless steel, tin and alloys of copper, tin and iron	SML(T) = 5 mg/kg (7) (expressed as copper); SML = 48 mg/kg (expressed as iron)
81840	000057-55-6	1,2-Propanediol	
81882	000067-63-0	2-Propanol	
82000	000079-09-4	Propionic acid	
82020	019019-51-3	Propionic acid, cobalt salt	SML(T) = 0.05 mg/kg (14) (expressed as Cobalt)
82080	009005-37-2	1,2-Propyleneglycol alginate	
82240	022788-19-8	1,2-Propyleneglycol dilaurate	
82400	000105-62-4	1,2-Propyleneglycol dioleate	
82560	033587-20-1	1,2-Propyleneglycol dipalmitate	

Ref. No	CAS No	Name	Restrictions and/or specifications
(1)	(2)	(3)	(4)
82720	006182-11-2	1,2-Propyleneglycol distearate	
82800	027194-74-7	1,2-Propyleneglycol monolaurate	
82960	001330-80-9	1,2-Propyleneglycol monooleate	
83120	029013-28-3	1,2-Propyleneglycol monopalmitate	
83300	001323-39-3	1,2-Propyleneglycol monostearate	
83320	-	Propylhydroxyethylcellulose	
83325	-	Propylhydroxymethylcellulose	
83330	-	Propylhydroxypropylcellulose	
83440	002466-09-3	Pyrophosphoric acid	
83455	013445-56-2	Pyrophosphorous acid	
83460	012269-78-2	Pyrophyllite	
83470	014808-60-7	Quartz	
83595	119345-01-6	Reaction product of di-tert-butylphosphonite with biphenyl, obtained by condensation of 2,4-di-tert-butylphenol with Friedel Craft reaction product of phosphorus trichloride and biphenyl	SML = 18 mg/kg and in compliance with the specifications mentioned in Annex V.
83599	068442-12-6	Reaction products of oleic acid, 2-mercaptoethyl ester, with dichlorodimethyltin, sodium sulphide and trichloromethyltin	SML(T) = 0.18 mg/kg (16) (expressed as Tin)
83610	073138-82-6	Resin acids and rosin acids	
83700	000141-22-0	Ricinoleic acid	SML = 42 mg/kg
83840	008050-09-7	Rosin	
84000	008050-31-5	Rosin, ester with glycerol	
84080	008050-26-8	Rosin, ester with pentaerythritol	
84210	065997-06-0	Rosin, hydrogenated	
84240	065997-13-9	Rosin, hydrogenated, ester with glycerol	
84320	008050-15-5	Rosin, hydrogenated, ester with methanol	
84400	064365-17-9	Rosin, hydrogenated, ester with pentaerythritol	
84560	009006-04-6	Rubber, natural	
84640	000069-72-7	Salicylic acid	
84800	000087-18-3	Salicylic acid, 4-tert-butylphenyl ester	SML = 12 mg/kg
84880	000119-36-8	Salicylic acid, methyl ester	SML = 30 mg/kg
85360	000109-43-3	Sebacic acid, dibutyl ester	
85601	-	Silicates, natural (with the exception of asbestos)	
85610	-	Silicates, natural, silanated (with the exception of asbestos)	
85680	001343-98-2	Silicic acid	
85760	012068-40-5	Silicic acid, lithium aluminium salt(2:1:1)	SML(T) = 0.6 mg/kg (8) (expressed as Lithium)
85840	053320-86-8	Silicic acid, lithium magnesium sodium salt	SML(T) = 0.6 mg/kg (8) (expressed as Lithium)
85920	012627-14-4	Silicic acid, lithium salt	SML(T) = 0.6 mg/kg (8) (expressed as Lithium)
85950	037296-97-2	Silicic acid, magnesium-sodium-fluoride salt	SML = 0.15 mg/kg (expressed as fluoride). Only to be used in layers of multilayers materials not coming into direct contact with food
86000	-	Silicic acid, silylated	
86160	000409-21-2	Silicon carbide	

Ref. No	CAS No	Name	Restrictions and/or specifications
(1)	(2)	(3)	(4)
86240	007631-86-9	Silicon dioxide	
86285	-	Silicon dioxide, silanated	
86480	007631-90-5	Sodium bisulphite	SML(T) = 10 mg/kg (30) (expressed as SO <sub>2</sub> )
86560	007647-15-6	Sodium bromide	
86720	001310-73-2	Sodium hydroxide	
86800	007681-82-5	Sodium iodide	SML(T) = 1 mg/kg (11) (expressed as Iodine)
86880	-	Sodium monoalkyl dialkylphenoxybenzenedisulphonate	SML = 9 mg/kg
86920	007632-00-0	Sodium nitrite	SML = 0.6 mg/kg
86960	007757-83-7	Sodium sulphite	SML(T) = 10 mg/kg (30) (expressed as SO <sub>2</sub> )
87040	001330-43-4	Sodium tetraborate	SML(T) = 6 mg/kg (23) (expressed as Boron) without prejudice to the provisions of Directive 98/83/EC on water for human consumption (OJ L 330, 5.12.1998,p.32)
87120	007772-98-7	Sodium thiosulphate	SML(T) = 10 mg/kg (30) (expressed as SO <sub>2</sub> )
87200	000110-44-1	sorbic acid	
87280	029116-98-1	Sorbitan dioleate	
87520	062568-11-0	Sorbitan monobehenate	
87600	001338-39-2	Sorbitan monolaurate	
87680	001338-43-8	Sorbitan monooleate	
87760	026266-57-9	Sorbitan monopalmitate	
87840	001338-41-6	Sorbitan monostearate	
87920	061752-68-9	Sorbitan tetrastearate	
88080	026266-58-0	Sorbitan trioleate	
88160	054140-20-4	Sorbitan tripalmitate	
88240	026658-19-5	Sorbitan tristearate	
88320	000050-70-4	Sorbitol	
88600	026836-47-5	Sorbitol monostearate	
88640	008013-07-8	Soybean oil, epoxidised	SML = 60 mg/kg. However in the case of PVC gaskets used to seal glass jars containing infant formulae and follow-on formulae as defined by Directive 91/321/EEC or containing processed cereal-based foods and baby foods for infants and young children as defined by Directive 96/5/EC, the SML is lowered to 30 mg/kg. In compliance with the specifications laid down in Annex V.
88800	009005-25-8	Starch, edible	
88880	068412-29-3	Starch, hydrolysed	
88960	000124-26-5	Stearamide	
89040	000057-11-4	Stearic acid	
89120	000123-95-5	Stearic acid, butyl ester	
89170	013586-84-0	Stearic acid, cobalt salt	SML(T) = 0.05 mg/kg (14) (expressed as Cobalt)

Ref. No	CAS No	Name	Restrictions and/or specifications
(1)	(2)	(3)	(4)
89200	007617-31-4	Stearic acid, copper salt	SML(T) = 5 mg/kg (7) (expressed as Copper)
89440	-	Stearic acid, esters with ethyleneglycol	SML(T) = 30 mg/kg (3)
90720	058446-52-9	Stearoylbenzoylmethane	
90800	005793-94-2	Stearoyl-2-lactylic acid, calcium salt	
90960	000110-15-6	Succinic acid	
91200	000126-13-6	Sucrose acetate isobutyrate	
91360	000126-14-7	Sucrose octaacetate	
91840	007704-34-9	Sulphur	
91920	007664-93-9	Sulphuric acid	
92000	007727-43-7	Sulphuric acid, barium salt	SML(T) = 1 mg/kg (12) (expressed as Barium)
92030	010124-44-4	Sulphuric acid, copper salt	SML(T) = 5 mg/kg (7) (expressed as Copper)
92080	014807-96-6	Talc	
92150	001401-55-4	Tannic acids	According to the JECFA specifications
92160	000087-69-4	Tartaric acid	
92195	-	Taurine, salts	
92205	057569-40-1	Terephthalic acid, diester with 2,2'-methylenebis(4-methyl-6-tert-butylphenol)	
92320	-	Tetradecyl-polyethyleneglycol(EO=3-8) ether of glycolic acid	SML = 15 mg/kg
92350	000112-60-7	Tetraethyleneglycol	
92560	038613-77-3	Tetrakis(2,4-di-tert-butyl-phenyl)-4,4'-biphenylene diphosphonite	SML = 18 mg/kg
92640	000102-60-3	N.N.N.'N'-Tetrakis(2-hydroxypropyl)ethylenediamine	
92700	078301-43-6	2,2,4,4-Tetramethyl-20-(2,3-epoxypropyl)-7-oxa-3,20-diazadispiro[5.1.11.2]-heneicosan-21-one, polymer	SML = 5 mg/kg
92800	000096-69-5	4,4'-Thiobis(6-tert-butyl-3-methylphenol)	SML = 0.48 mg/kg
92880	041484-35-9	Thiodiethanol bis(3-(3,5-di-tert-butyl-4-hydroxy phenyl) propionate)	SML = 2.4 mg/kg
92930	120218-34-0	Thiodiethanolbis(5-methoxycarbonyl-2,6-dimethyl-1,4-dihydropyridine-3-carboxylate)	SML = 6 mg/kg
93120	000123-28-4	Thiodipropionic acid, didodecyl ester	SML(T) = 5 mg/kg (21)
93280	000693-36-7	Thiodipropionic acid, dioctadecyl ester	SML(T) = 5 mg/kg (21)
93440	013463-67-7	Titanium dioxide	
93520	000059-02-9 and 010191-41-0	alpha-Tocopherol	
93680	009000-65-1	Tragacanth gum	
93720	000108-78-1	2,4,6-Triamino-1,3,5-triazine	SML = 30 mg/kg
93760	000077-90-7	Tri-n-butyl acetyl citrate	
93970	—	Tricyclodecanedimethanol bis(hexahydrophthalate)	SML = 0,05 mg/kg.
94320	000112-27-6	Triethyleneglycol	
94400	036443-68-2	Triethyleneglycol bis[3-(3-tert-butyl-4-hydroxy -5-methylphenyl) propionate]	SML = 9 mg/kg
94560	000122-20-3	Triisopropanolamine	SML = 5 mg/kg
94960	000077-99-6	1,1,1-Trimethylolpropane	SML = 6 mg/kg

Ref. No	CAS No	Name	Restrictions and/or specifications
(1)	(2)	(3)	(4)
95000	028931-67-1	Trimethylolpropane trimethacrylate-methyl methacrylate copolymer	
95020	6846-50-0	2,2,4-Trimethyl-1,3-pentanediol di-isobutyrate	SML = 5 mg/kg food. To be used in single-use gloves only.
95200	001709-70-2	1,3,5-Trimethyl-2,4,6-tris(3,5-di-tert-butyl-4-hydroxybenzyl)benzene	
95265	227099-60-7	1,3,5-Tris(4-benzoylphenyl) benzene	SML = 0.05 mg/kg
95270	161717-32-4	2,4,6-Tris(tert-butyl)phenyl-2-butyl-2-ethyl-1,3-propanediol phosphite	SML = 2 mg/kg (as sum of phosphite, phosphate and the hydrolysis product = TTBP)
95280	040601-76-1	1,3,5-Tris(4-tert-butyl-3-hydroxy-2,6-dimethylbenzyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione	SML = 6 mg/kg
95360	027676-62-6	1,3,5-Tris(3,5-di-tert-butyl-4-hydroxybenzyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione	SML = 5 mg/kg
95420	745070-61-5	1,3,5-tris (2,2-dimethylpropanamido)-benzene	SML = 0,05 mg/kg food.'
95600	001843-03-4	1,1,3-Tris(2-methyl-4-hydroxy-5-tert-butylphenyl) butane	SML = 5 mg/kg
95725	110638-71-6	Vermiculite, reaction product with citric acid, lithium salt	SML(T) = 0.6 mg/kg (8) (expressed as Lithium)
95855	007732-18-5	Water	In compliance with the Directive 98/83/EC.
95858	---	Waxes, paraffinic, refined, derived from petroleum based or synthetic hydrocarbon feedstocks	SML = 0.05 mg/kg and in compliance with the specifications laid down in Annex V. Not to be used for articles in contact with fatty foods.
95859	-	Waxes, refined, derived from petroleum based or synthetic hydrocarbon feedstocks	In compliance with the specifications laid down in Annex V.
95883	-	White mineral oils, paraffinic, derived from petroleum based hydrocarbon feedstocks	In compliance with the specifications laid down in Annex V.
95905	013983-17-0	Wollastonite	
95920	-	Wood flour and fibers, untreated	
95935	011138-66-2	Xanthan gum	
96190	020427-58-1	Zinc hydroxide	SML(T) = 25 mg/kg (38) (as Zinc)
96240	001314-13-2	Zinc oxide	SML(T) = 25 mg/kg (38) (as Zinc)
96320	001314-98-3	Zinc sulphide	SML(T) = 25 mg/kg (38) (as Zinc)
<b>Products obtained by means of bacterial fermentation</b>			
18888	080181-31-3	3-Hydroxybutanoic acid-3-hydroxypentanoic acid, copolymer	In compliance with specifications included in Annex V

## ANNEX II

### Part A: General specifications

Plastic material and articles shall not release primary aromatic amines in a detectable quantity (DL = 0,01 mg/kg of food or food simulant). The migration of the primary aromatic amines appearing in the list in Annex I of this document is excluded from this restriction.

### PART B: Other Specifications

Ref. No	OTHER SPECIFICATIONS
11530	Acrylic acid, 2-hydroxypropyl ester. It may contain up to 25% (m/m) of acrylic acid, 2-hydroxyisopropyl ester (CAS N. 002918-23-2)
16690	Divinylbenzene It may contain up to 45% of Ethylvinylbenzene.
18888	<p>3-Hydroxybutanoic acid-3-hydroxypentanoic acid, copolymer</p> <p><b>Definition</b> The copolymers are produced by the controlled fermentation of <i>Alcaligenes eutrophus</i> using mixtures of glucose and propanoic acid as carbon sources. The organism used has not been genetically engineered and has been derived from a single wild-type organism <i>Alcaligenes eutrophus</i> strain HI6 NCIMB 10442. Master stocks of the organism are stored as freeze-dried ampoules. A submaster/working stock is prepared from the master stock and stored in liquid nitrogen and used to prepare inocula for the fermenter. Fermenter samples will be examined daily both microscopically and for any changes in colonial morphology on a variety of agars at different temperatures. The copolymers are isolated from heat treatment bacteria by controlled digestion of the other cellular components, washing and drying. These copolymers are normally offered as formulated, melt formed granules containing additives such as nucleating agents, plasticisers, fillers, stabilisers and pigments which all conform to the general and individual specifications.</p> <p><b>Chemical name</b> Poly(3-D-hydroxybutanoate-co-3-D-hydroxypentanoate)</p> <p><b>CAS number</b> 080181-31-3</p> <p><b>Structural formula</b></p> $\begin{array}{c} \text{CH}_3 \\   \\ \text{(-O-CH-CH}_2\text{-C-)}_m \text{ - (O-CH-CH}_2\text{-C-)}_n \\   \quad \quad \quad    \quad \quad \quad   \quad \quad \quad    \\ \text{CH}_3 \quad \quad \quad \text{O} \quad \quad \quad \text{CH}_2 \quad \quad \quad \text{O} \end{array}$ <p>where n/(m+n) greater than 0 and less or equal to 0.25</p> <p><b>Average molecular weight</b> Not less than 150 000 Daltons (measured by gel permeation chromatography).</p> <p><b>Assay</b> Not less than 98% poly(3-D-hydroxybutanoate-co-3-D-hydroxypentanoate) analysed after hydrolysis as a mixture of 3-D-hydroxybutanoic and 3-D-hydroxypentanoic acids.</p> <p><b>Description</b> White to off-white powder after isolation</p> <p><b>Characteristics</b></p> <p><b>Identification tests:</b></p> <p><b>Solubility</b> Soluble in chlorinated hydrocarbons such as chloroform or dichloromethane but practically insoluble in ethanol, aliphatic alkanes and water.</p> <p><b>Migration</b> The migration of crotonic acid should not exceed 0.05 mg/kg food.</p> <p><b>Restriction</b> QMA for crotonic acid is 0.05 mg/6 dm<sup>2</sup></p> <p><b>Purity</b> Prior to granulation the raw material copolymer powder must contain:</p> <ul style="list-style-type: none"> <li>-Nitrogen Not more than 2500 mg/kg of plastic</li> <li>-Zinc Not more than 100 mg/kg of plastic</li> <li>-Copper Not more than 5 mg/kg of plastic</li> <li>-Lead Not more than 2 mg/kg of plastic</li> <li>-Arsenic Not more than 1 mg/kg of plastic</li> <li>-Chromium Not more than 1 mg/kg of plastic</li> </ul>
23547	Polydimethylsiloxane (Mw>6800) Minimum viscosity 100 x 10 <sup>-6</sup> m <sup>2</sup> /s (=100 centistokes) at 25°C
24903	<b>Syrups, hydrolysed starch, hydrogenated</b> In compliance with the purity criteria for maltitol syrup E 965(ii) (Commission Directive 95/31/EC of 5 July 1995 (O.J. L 178, 28.7.1995, p.1 as last amended by 2004/46/EC of 16 April 2004 (O.J. L 114, 21.04.2004, p.15 )
25385	Triallylamine 40 mg/kg hydrogel at a ratio of 1kg food to a maximum of 1.5 grams of hydrogel. For use only in hydrogels intended for non-direct food contact use.
38320	4-(2-Benzoxazolyl)-4'-(5-methyl-2-benzoxazolyl) stilbene Not more than 0.05%w/w (quantity of substance used/quantity of the formulation)



42080	Carbon black <i>Specifications:</i> <ul style="list-style-type: none"> <li>▪ Toluene extractables: maximum 0,1 %, determined according to ISO method 6209.</li> <li>▪ UV absorption of cyclohexane extract at 386 nm: &lt; 0,02 AU for a 1 cm cell or &lt; 0,1 AU for a 5 cm cell, determined according to a generally recognised method of analysis.</li> <li>▪ Benzo(a)pyrene content: max 0,25 mg/kg carbon black.</li> <li>▪ Maximum use level of carbon black in the polymer: 2,5 % w/w</li> </ul>
43480	<b>Charcoal, activated</b> To be used only in PET at maximum 10 mg/kg of polymer. Same purity requirements as for Vegetable Carbon (E 153) set out by Commission Directive 95/45/EC laying down specific purity criteria concerning colours for use in foodstuffs <sup>1</sup> with exception of ash content which can be up to 10% (w/w).
43680	Chlorodifluoromethane Content of chlorofluoromethane less than 1 mg/kg of the substance
47210	Dibutylthiostannoic acid polymer Molecular unit = (C <sub>8</sub> H <sub>18</sub> S <sub>3</sub> Sn <sub>2</sub> ) <sub>n</sub> (n=1.5-2)
60025	<i>Specifications:</i> - Minimum viscosity (at 100°C) = 3.8 cSt - Average Mw>450
64990	<b>Maleic anhydride-styrene, copolymer, sodium salt</b> MW fraction < 1000 is less than 0,05% (w/w)
67155	<b>Mixture of 4-(2-Benzoxazolyl)-4'-(5-methyl-2-benzoxazolyl)stilbene, 4,4'-bis(2-benzoxazolyl) stilbene and 4,4'-bis(5-methyl-2-benzoxazolyl)stilbene</b> Mixture obtained from the manufacturing process in the typical ratio of (58-62%):(23-27%):13-17%.
72081/10	Petroleum hydrocarbon resins (hydrogenated) <i>Specifications:</i> Petroleum hydrocarbon resins, hydrogenated are produced by the catalytic or thermal polymerisation of dienes and olefins of the aliphatic, alicyclic and/or monobenzenoid arylalkene types from distillates of cracked petroleum stocks with a boiling range not greater than 220 °C, as well as the pure monomers found in these distillation streams, subsequently followed by distillation, hydrogenation and additional processing. <i>Properties:</i> Viscosity: > 3 Pa.s at 120 °C. Softening point: > 95 °C as determined by ASTM Method E 28-67. Bromine number: < 40 (ASTM D1159) The colour of a 50 % solution in toluene < 11 on the Gardner scale Residual aromatic monomer ≤ 50 ppm
76721	Polydimethylsiloxane (Mw>6800) Minimum viscosity 100x10 <sup>-6</sup> m <sup>2</sup> /s (=100 centistokes) at 25°C
76723	<i>Specifications:</i> The fraction with molecular weight below 1000 should not exceed 1.5% w/w
76725	<i>Specifications:</i> The fraction with molecular weight below 1000 should not exceed 1 % w/w
76815	<b>Polyester of adipic acid with glycerol or pentaerythritol, esters with even numbered, unbranched C12-C22 fatty acids</b> MW fraction < 1000 is less than 5% (w/w)
76845	Polyester of 1,4-butanediol with caprolactone MW fraction < 1 000 is less than 0,5 % (w/w)
77895	Polyethyleneglycol (EO = 2-6) monoalkyl (C16-C18) ether The composition of this mixture is as follows: <ul style="list-style-type: none"> <li>- polyethyleneglycol (EO=2-6)monoalkyl (C16-C18) ether (approx. 28%)</li> <li>- fatty alcohols (C16-C18) (approx. 48%)</li> <li>- ethyleneglycol monoalkyl (C16-C18) ether (approx. 24%)</li> </ul>
79600	<b>Polyethyleneglycol tridecyl ether phosphate</b> Polyethyleneglycol (EO≤11) tridecyl ether phosphate (mono-and dialkyl ester) with a maximum 10% content of polyethyleneglycol (EO≤ 11) tridecylether <sup>2</sup>

\* OJ L 339, 30.12.1996, p. 1.”

<sup>1</sup> OJ L 226, 22.9.1995, p.1. Directive as last amended by Directive 2004/47/EC (OJ L 113 , 20.4.2004, p.24).

<sup>2</sup> Quantity of substance used /quantity of formulation

81500	Polyvinylpyrrolidone The substance shall meet the purity criteria established in Commission Directive 96/77/EC (*)
83595	Reaction product of di-tert-butylphosphonite with biphenyl, obtained by condensation of 2,4-di-tert-butylphenol with Friedel Craft reaction product of phosphorous trichloride and biphenyl <b>Composition:</b> - 4,4'-Biphenylene-bis[0,0-bis(2,4-di-tert-butylphenyl)phosphonite] (CAS.N. 38613-77-3) (36-46% w/w <sup>2</sup> ), - 4,3'-Biphenylene-bis[0,0-bis(2,4-di-tert-butylphenyl)phosphonite] (CAS.N. 118421-00-4) (17-23% w/w <sup>2</sup> ), - 3,3'-Biphenylene-bis[0,0-bis(2,4-di-tert-butylphenyl)phosphonite] (CAS.N. 118421-01-5) (1-5% w/w <sup>2</sup> ), - 4-Biphenylene-0,0-bis(2,4-di-tert-butylphenyl)phosphonite (CAS.N. 91362-37-7) (11-19% w/w <sup>2</sup> ) - Tris(2,4-di-tert-butylphenyl)phosphite (CAS.N. 31570-04-4) (9-18% w/w <sup>2</sup> ), - 4,4'-Biphenylene-0,0-bis(2,4-di-tert-butylphenyl)phosphonate-0,0-bis(2,4-di-tert-butylphenyl)phosphonite (CAS.N. 112949-97-0) (<5% w/w <sup>2</sup> ) <b>Other specifications</b> - Phosphor content of min. 5.4%-max 5.9% - Acid value of max. 10 mg KOH per gram - Melt range of 85-110°C
88640	Soybean oil, epoxidized Oxirane < 8 %, iodine number < 6
95858	Specifications: - Average molecular weight not less than 350 - Viscosity at 100°C min 2.5 cSt - Content of hydrocarbons with carbon number less than 25, not more than 40%(w/w). <sup>1</sup>
95859	Waxes, refined, derived from petroleum based or synthetic hydrocarbon feedstocks The product should have the following specifications: -Content of mineral hydrocarbons with Carbon number less than 25, not more than 5% (w/w) -Viscosity not less than $11 \times 10^{-6} \text{ m}^2/\text{s}$ (= 11 centistokes) at 100°C -Average molecular weight not less than 500
95883	White mineral oils, paraffinic derived from petroleum based hydrocarbon feedstocks The product should have the following specifications; -Content of mineral hydrocarbons with Carbon number less than 25, not more than 5% (w/w) -Viscosity not less than $8,5 \times 10^{-6} \text{ m}^2/\text{s}$ (=8.5 centistokes) at 100°C -Average molecular weight not less than 480

<sup>2</sup> Quantity of substance used /quantity of formulation

**NOTES RELATED TO THE COLUMN “RESTRICTIONS AND/OR SPECIFICATIONS”**

- (1) Warning: there is a risk that the SML could be exceeded in fatty food simulants.
- (2) SML(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration of the following substances mentioned as Ref. Nos: 10060 and 23920.
- (3) SML(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration of the following substances mentioned as Ref. Nos: 15760, 16990, 47680, 53650 and 89440.
- (4) SML(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration of the following substances mentioned as Ref. Nos: 19540, 19960 and 64800.
- (5) SML(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration of the following substances mentioned as Ref. Nos: 14200, 14230 and 41840.
- (6) SML(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration of the following substances mentioned as Ref. Nos: 66560 and 66580.
- (7) SML(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration levels of the following substances mentioned as Ref. Nos: 30080, 42320, 45195, 45200, 53610, 81760, 89200 and 92030.
- (8) SML(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration levels of the following substances mentioned as Ref. Nos: 24886, 38000, 42400, 62020, 64320, 66350, 67896, 73040, 85760, 85840, 85920 and 95725.
- (9) Warning: there is a risk that the migration of the substance deteriorates the organoleptic characteristics of the food in contact and then, that the finished product does not comply with the second indent of Article 2 of Directive 89/109/EEC.
- (10) SML(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration levels of the following substances mentioned as Ref. Nos: 30180, 40980, 63200, 65120, 65200, 65280, 65360, 65440 and 73120.
- (11) SML(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration levels (expressed as Iodine) of the following substances mentioned as Ref. Nos: 45200, 64320, 81680 and 86800.
- (12) SML(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration levels of the following substances mentioned as Ref. Nos: 36720, 36800, 36840 and 92000.

- (13) SML(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration levels of the following substances mentioned as Ref. Nos: 39090 and 39120.
- (14) SML(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration levels of the following substances mentioned as Ref. Nos: 44960, 68078, 69160, 82020 and 89170.
- (15) SML(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration levels of the following substances mentioned as Ref. Nos: 15970, 48640, 48720, 48880, 61280, 61360 and 61600.
- (16) SML(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration levels of the following substances mentioned as Ref. Nos: 49595, 49600, 67520, 67515 and 83599.
- (17) SML(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration levels of the following substances mentioned as Ref. Nos: 50160, 50240, 50320, 50360, 50400, 50480, 50560, 50640, 50720, 50800, 50880, 50960, 51040 and 51120.
- (18) SML(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration levels of the following substances mentioned as Ref. Nos: 67600, 67680 and 67760.
- (19) SML(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration levels of the following substances mentioned as Ref. Nos: 60400, 60480 and 61440.
- (20) SML(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration levels of the following substances mentioned as Ref. Nos: 66400 and 66480.
- (21) SML(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration levels of the following substances mentioned as Ref. Nos: 93120 and 93280.
- (22) SML(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration levels of the following substances mentioned as Ref. Nos: 17260, 18670, 54880 and 59280.
- (23) SML(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration levels of the following substances mentioned as Ref. Nos: 13620, 36840, 40320 and 87040.
- (24) SML(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration levels of the following substances mentioned as Ref. Nos: 13720 and 40580.
- (25) SML(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration levels of the following substances mentioned as Ref. Nos: 16650 and 51570.
- (26) QM(T) in this specific case means that the restriction shall not be exceeded by the sum of the residual quantities of the following substances mentioned as Ref. Nos:

14950, 15700, 16240, 16570, 16600, 16630, 18640, 19110, 22332, 22420, 22570, 25210, 25240 and 25270.

- (27) QMA(T) in this specific case means that the restriction shall not be exceeded by the sum of the residual quantities of the following substances mentioned as Ref. Nos: 10599/90A, 10599/91, 10599/92A and 10599/93.
- (28) SML(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration levels of the following substances mentioned as Ref. Nos: 13480 and 39680.
- (29) SML(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration levels of the following substances mentioned as Ref. Nos: 22775 and 69920.
- (30) SML(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration levels of the following substances mentioned as Ref. Nos: 86480, 86960 and 87120
- (31) Compliance testing when there is a fat contact should be performed using saturated fatty food simulants as simulant D.
- (32) Compliance testing when there is a fat contact should be performed using isoctane as substitute of simulant D (unstable).
- (33) QMA(T) in this specific case means that the restriction shall not be exceeded by the sum of the residual quantities of the following substances mentioned as Ref. Nos: 14800 and 45600.
- (34) SML(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration levels of the following substances mentioned as Ref. Nos: 55200, 55280 and 55360.
- (35) SML(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration levels of the following substances mentioned as Ref. Nos: 25540 and 25550.
- (36) SML(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration levels of the following substances mentioned as Reference Nos 10690, 10750, 10780, 10810, 10840, 11470, 11590, 11680, 11710, 11830, 11890, 11980, 31500 and 76463.
- (37) SML(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration levels of the following substances mentioned as Ref. Nos: 20020, 20080, 20110, 20140, 20170, 20890, 21010, 21100, 21130, 21190, 21280, 21340 and 21460.
- (38) SML(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration levels of the following substances mentioned as Ref. Nos: 81515, 96190, 96240 and 96320 as well as of salts (including double salts and acid salts) of zinc of authorised acids, phenols or alcohols. The same restriction for Zn applies to the names containing '... acid(s), salts' which appear in the lists, if the corresponding free acid(s) is (are) not mentioned.
- (39) Migration limit might be exceeded at very high temperature.

- (40) SML(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration levels of the following substances mentioned as Ref. Nos: 38940 and 40020.
- (41) SML(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration levels of the following substances mentioned as Ref. Nos: 47600, 67360.
- (42) SML(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration levels of the following substances mentioned as Ref. Nos: 75100 and 75105.
- (43) SML(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration levels of the following substances mentioned as Reference Nos: 19150 and 19180.