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►<u>B</u>

▶<u>C1</u> COMMISSION DIRECTIVE

of 23 February 1990

relating to plastics materials and articles intended to come into contact with foodstuffs

(90/128/EEC) ◀

(OJ L 75, 21.3.1990, p. 19)

Amended by:

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► <u>M1</u>	Commission Directive 92/39/EEC of 14 May 1992	L 168	21	23.6.1992
► <u>M2</u>	Commission Directive 93/9/EEC of 15 March 1993	L 90	26	14.4.1993
► <u>M3</u>	Commission Directive 95/3/EC of 14 February 1995	L 41	44	23.2.1995
► <u>M4</u>	Commission Directive 96/11/EC of 5 March 1996	L 61	26	12.3.1996
► <u>M5</u>	Commission Directive 1999/91/EC of 23 November 1999	L 310	41	4.12.1999
► <u>M6</u>	Commission Directive 2001/62/EC of 9 August 2001	L 221	18	17.8.2001

Corrected by:

►C1 Corrigendum, OJ L 349, 13.12.1990, p. 26 (90/128/EEC)

▶ <u>C2</u> Corrigendum, OJ L 249, 4.10.2000, p. 26 (1999/91/EC)

COMMISSION DIRECTIVE

of 23 February 1990

relating to plastics materials and articles intended to come into contact with foodstuffs

(90/128/EEC)

THE COMMISSION OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Economic Community,

Having regard to Council Directive 89/109/EEC of 21 December 1988 on the approximation of the laws of the Member States relating to materials and articles intended to come into contact with foodstuffs (¹), and in particular Article 3 thereof,

Whereas Article 2 of Directive 89/109/EEC lays down that materials and articles, in their finished state, must not transfer their constituents to foodstuffs in quantities which could endanger human health or bring about an unacceptable change in the composition of the foodstuffs;

Whereas, in order to achieve this objective in the case of plastics materials and articles, a suitable instrument is a specific Directive within the meaning of Article 3 of Directive 89/109/EEC, the general provisions of which are also applicable to the case in question;

Whereas the scope of this Directive must coincide with that of Council Directive $82/711/EEC(^2)$;

Whereas since the rules established in this Directive are not suitable for ion-exchange resins, these materials and articles will be covered by a subsequent specific Directive;

Whereas the establishment of a list of approved substances accompanied by a limit on overall migration and, where necessary, by other specific restrictions will be sufficient to achieve the objective laid down in Article 2 of Directive 89/109/EEC;

Whereas the stage reached in the work at Community level does not yet permit adoption of a complete list of the authorized substances applicable to all types of plastics materials and articles and therefore the substances which are currently used in at least one Member State can continue to be used pending a decision on inclusion in the Community list; whereas this Directive will accordingly be extended in due course to the substances and sectors provisionally excluded;

Whereas the overall migration limit is a measure of the inertness of the material and prevents an unacceptable change in the composition of the foodstuffs, and, moreover, reduces the need for a large number of specific migration limits or other restrictions, thus giving effective control;

Whereas Directive 82/711/EEC lays down the basic rules necessary for testing migration of the constituents of plastics materials and articles and Council Directive 85/572/EEC (³) establishes the list of simulants to be used in the migration tests;

▼<u>B</u> ▼<u>C1</u>

^{(&}lt;sup>1</sup>) OJ No L 40, 11. 2. 1989, p. 38.

⁽²⁾ OJ No L 297, 23. 10. 1982, p. 26.

^{(&}lt;sup>3</sup>) OJ No L 372, 31. 12. 1985, p. 14.

Whereas Council Directive $78/142/\text{EEC}(^1)$ lays down limits for the quantity of vinyl chloride present in plastics materials and articles prepared with this substance and for the quantity of vinyl chloride released by these materials and articles, and Commission Directives $80/766/\text{EEC}(^2)$ and $81/432/\text{EEC}(^3)$ establish the Community methods of analysis for controlling these limits;

Whereas Commission Directive 80/590/EEC (⁴) determines the symbol that may accompany any material and article intended to come into contact with foodstuffs;

Whereas in view of potential liability, there is a need for the written declaration provided for in Article 6 (5) of Directive 89/109/EEC whenever professional use is made of plastics materials and articles which are not by their nature clearly intended for food use;

Whereas, in accordance with Article 3 of Directive 89/109/EEC, the Scientific Committee for Food has been consulted on the provisions liable to affect public health;

Whereas the measures provided for in this Directive are in accordance with the opinion of the Standing Committee on Foodstuffs,

HAS ADOPTED THIS DIRECTIVE:

Article 1

1. This Directive is a specific Directive within the meaning of Article 3 of Directive 89/109/EEC.

2. This Directive shall apply to plastics materials and articles and parts thereof:

- (a) consisting exclusively of plastics; or
- (b) composed of two or more layers of materials, each consisting exclusively of plastics, which are bound together by means of adhesives or by any other means,

which, in the finished product state, are intended to come into contact or are brought into contact with foodstuffs and are intended for that purpose.

▼<u>M6</u>

3. For the purposes of this Directive, 'plastics' shall mean the organic macromolecular compounds obtained by polymerisation, polycondensation, polyaddition or any other similar process from molecules with a lower molecular weight or by chemical alteration of natural macromoles. Other substances or matter may be added to such macromolecular compounds.

However, the following shall not be regarded as 'plastics':

- (i) varnished or unvarnished regenerated cellulose film, covered by Commission Directive 93/10/EEC (⁵);
- (ii) elastomers and natural and synthetic rubber;
- (iii) paper and paperboard, whether modified or not by the addition of plastics;
- (iv) surface coatings obtained from:
 - paraffin waxes, including synthetic paraffin waxes, and/or micro-crystalline waxes,
 - mixtures of the waxes listed in the first indent with each other and/or with plastics;
- (v) ion-exchange resins;
- (vi) silicones.

^{(&}lt;sup>1</sup>) OJ No L 44, 15. 2. 1978, p. 15.

⁽²⁾ OJ No L 213, 16. 8. 1980, p. 42.

^{(&}lt;sup>3</sup>) OJ No L 167, 24. 6. 1981, p. 6.

^{(&}lt;sup>4</sup>) OJ No L 151, 19. 6. 1980, p. 21.

^{(&}lt;sup>5</sup>) OJ L 93, 17.4.1993, p. 27.

4. This Directive shall not apply, until further action by the Commission, to materials and articles composed of two or more layers, one or more of which does not consist exclusively of plastics, even if the one intended to come into direct contact with foodstuffs does consist exclusively of plastics.

Article 2

Plastics materials and articles shall not transfer their constituents to foodstuffs in quantities exceeding 10 milligrams per square decimetre of surface area of material or article (mg/dm²) (overall migration limit). However, this limit shall be 60 milligrams of the constituents released per kilogram of foodstuff (mg/kg) in the following cases:

- (a) articles which are containers or are comparable to containers or which can be filled, with a capacity of not less than 500 millilitres (ml) and not more than 10 litres (l);
- (b) articles which can be filled and for which it is impracticable to estimate the surface area in contact with foodstuffs;
- (c) caps, gaskets, stoppers or similar devices for sealing.

Article 3

1. Only those monomers and other starting substances listed in Annex II, Sections A and B may be used for the manufacture of plastics materials and articles subject to the restrictions specified.

2. From the date of notification of this Directive, the list in Annex II, Section A may be amended:

- either by adding substances listed in Annex II, Section B, according to the criteria in Annex II of Directive 89/109/EEC, or
- by including 'new substances', i. e. substances which are listed neither in Section A nor in Section B of Annex II, according to Article 3 of Directive 89/109/EEC.

3. From the date of notification of this Directive no Member State shall authorize any new substance for use within its territory except under the procedure in Article 4 of Directive 89/109/EEC.

▼<u>M6</u>

4. Only those monomers and other starting substances listed in Annex II, Section A, shall be used for the manufacture of plastic materials and articles, subject to the restrictions specified therein.

By way of derogation from the first subparagraph, the monomers and other starting substances listed in Annex II, Section B, may continue to be used until 31 December 2004 at the latest, pending their evaluation by the Scientific Committee on Food.

5. The lists appearing in Annex II, Sections A and B, do not yet include monomers and other starting substances used only in the manufacture of:

- surface coatings obtained from resinous or polymerised products in liquid, powder or dispersion form, such as varnishes, lacquers, paints, etc.,
- epoxy resins,
- adhesives and adhesion promoters,
- printing inks.

Article 3a

An incomplete list of additives which may be used for the manufacture of plastic materials and articles, together with restrictions and/or specifications on their use, is set out in Annex III, Sections A and B.

For the substances in Annex III, Section B, the specific migration limits are applied as from 1 January 2004 when the verification of compliance is carried out in simulant D or in test media of substitute tests as laid down in Directives 82/711/EEC and 85/572/EEC.

Article 3b

Only the products obtained by means of bacterial fermentation listed in Annex IV may be used in contact with foodstuffs.

Article 3c

▼<u>M6</u>

1. General specifications related to plastics materials and articles are laid down in Annex V, part A. Other specifications related to some substances appearing in Annexes II, III and IV are laid down in Annex V, part B.

▼<u>M5</u>

2. The meaning of the numbers between brackets appearing in the Column 'Restrictions and/or specifications' is explained in Annex VI.

▼<u>C1</u>

Article 4

The specific migration limits in the list set out in Annex II are expressed in mg/kg. However, such limits are expressed in mg/dm² in the following cases:

- (a) articles which are containers or are comparable to containers or which can be filled, with a capacity of less than 500 ml or more than 10 l;
- (b) sheet, film or other materials which cannot be filled or for which it is impracticable to estimate the relationship between the surface area of such materials and the quantity of foodstuff in contact therewith.

In these cases, the limits set out in Annex II, expressed in mg/kg shall be divided by the conventional conversion factor of 6 in order to express them in mg/dm^2 .

Article 5

1. Verification of compliance with the migration limits shall be carried out in accordance with the rules laid down in Directives 82/711/ EEC and 85/572/EEC and the further provisions set out in Annex I.

2. The verification of compliance with the specific migration limits provided for in paragraph 1 shall not be compulsory, if it can be established that compliance with the overall migration limit laid down in Article 2 implies that the specific migration limits are not exceeded.

▼<u>M2</u>

3. The verification of compliance with the specific migration limits provided for in paragraph 1 shall not be compulsory, if it can be established that, by assuming complete migration of the residual substance in the material or article, it cannot exceed the specific limit of migration.

▼M6

4. The verification of compliance with the specific migration limits provided for in paragraph 1 may be ensured by the determination of the quantity of a substance in the finished material or article provided that a relationship between that quantity and the value of the specific migration of the substance has been established either by an adequate experimentation or by the application of generally recognised diffusion models based on scientific evidence. To demonstrate the noncompliance of a material or article, confirmation of the estimated migration value by experimental testing is obligatory.

▼<u>C1</u>

Article 6

1. At the marketing stages other than the retail stages, the plastics materials and articles which are intended to be placed in contact with foodstuffs shall be accompanied by a written declaration in accordance with Article 6 (5) of Directive 89/109/EEC.

▼<u>M5</u>

▼<u>C1</u>

2. Paragraph 1 does not apply to plastics materials and articles which by their nature are clearly intended to come into contact with foodstuffs.

Article 7

1. The Member States shall bring into force the laws, regulations and administrative provisions necessary to comply with this Directive not later than 31 December 1990. They shall forthwith inform the Commission thereof.

- 2. Member States shall:
- permit the trade in and use of plastics materials and articles complying with this Directive before 1 January 1991,
- prohibit trade in and use of plastics materials and articles intended to come into contact with foodstuffs and which do not comply with this Directive as from 1 January 1993.

Article 8

This Directive is addressed to the Member States.

ANNEX I

FURTHER PROVISIONS APPLICABLE WHEN CHECKING COMPLI-ANCE WITH THE MIGRATION LIMITS

General provisions

- 1. When comparing the results of the migration tests specified in the Annex to Directive 82/711/EEC, the specific gravity of all the simulants should conventionally be assumed to be 1. Milligrams of substance(s) released per litre of simulant (mg/l) will thus correspond numerically to milligrams of substance(s) released per kilogram of simulant and, taking into account the provisions laid down in Directive 85/572/EEC, to milligrams of substance(s) released per kilogram of foodstuff.
- 2. Where the migration tests are carried out on samples taken from the material or article or on samples manufactured for the purpose, and the quantities of foodstuff or simulant placed in contact with the sample differ from those employed in the actual conditions under which the material or article is used, the results obtained should be corrected by applying the following formula:

$$M = \frac{m. a_2}{a_1. q. 1000}$$

Where:

- M is the migration in mg/kg;
- m is the mass in mg of substance released by the sample as determined by the migration test;
- a₁ is the surface area in dm² of the sample in contact with the foodstuff or simulant during the migration test;
- a_2 is the surface area in dm² of the material or article in real conditions of use;
- q is the quantity in grams of foodstuff in contact with the material or article in real conditions of use.
- 3. The determination of migration is carried out on the material or article or, if that is impracticable, using either specimens taken from the material or article or, where appropriate, specimens representative of this material or article.

The sample shall be placed in contact with the foodstuff or simulant in a manner representing the contact conditions in actual use. For this purpose, the test shall be performed in such a way that only those parts of the sample intended to come into contact with foodstuffs in actual use will be in contact with the foodstuff or simulant. This condition is particularly important in the case of materials and articles comprising several layers, for closures, etc.

The migration testing of caps, gaskets, stoppers or similar devices for sealing must be carried out on these articles by applying them to the containers for which they are intended in a manner which corresponds to the conditions of closing in normal or foreseeable use.

It shall in all cases be permissible to demonstrate compliance with migration limits by the use of a more severe test.

- 4. In accordance with the provisions set out in Article 5 of the present Directive, the sample of the material or article is placed in contact with the foodstuff or appropriate simulant for a period and at a temperature which are chosen by reference to the contact conditions in actual use, in accordance with the rules laid down in Directives 82/711/EEC and 85/572/EEC. At the end of the prescribed time, the analytical determination of the total quantity of substances (overall migration) and/or the specific quantity of one or more substances (specific migration) released by the sample is carried out on the foodstuff or simulant.
- 5. Where a material or article is intended to come into repeated contact with foodstuffs, the migration test(s) shall be carried out three times on a single sample in accordance with the conditions laid down in Directive 82/711/EEC using another sample of the food or simulant(s) on each occasion. Its compliance shall be checked on the basis of the level of the migration found in the third test. However, if there is conclusive proof that the level of the migration does not increase in the second and third tests and if the migration limit(s) is (are) not exceeded on the first test, no further test is necessary.

Special provisions relating to overall migration

6. If the aqueous simulants specified in Directives 82/711/EEC and 85/572/EEC are used, the analytical determination of the total quantity of substances released by the sample may be carried out by evaporation of the simulant and weighing of the residue.

If rectified olive oil or any of its substitutes is used, the procedure given below may be followed.

The sample of the material or article is weighed before and after contact with the simulant. The simulant absorbed by the sample is extracted and determined quantitatively. The quantity of simulant found is subtracted from the weight of the sample measured after contact with the simulant. The difference between the initial and corrected final weights represents the overall migration of the sample examined.

Where a material or article is intended to come into repeated contact with foodstuffs and it is technically impossible to carry out the test described in paragraph 5, modifications to that test are acceptable, provided that they enable the level of migration occurring during the third test to be determined. One of these possible modifications is described below.

The test is carried out on three identical samples of the material or article. One of these shall be subjected to the appropriate test and the overall migration determined (M_1). The second and third samples shall be subjected to the same conditions of temperature but the period of contact shall be two and three times that specified and overall migration determined in each case (M_2 and M_3 , respectively).

The material or article shall be deemed to be in compliance provided that either M_1 or M_3 — M_2 do not exceed the overall migration limit.

7. A material or article that exceeds the overall migration limit by an amount not greater than the analytical tolerance mentioned below should therefore be deemed to be in compliance with this Directive.

The following analytical tolerances have been observed:

- 20 mg/kg or 3 mg/dm² in migration tests using rectified olive oil or substitutes,

▼<u>M6</u>

 — 12 mg/kg or 2 mg/dm² in migration tests using the other simulants referred to in Directives 82/711/EEC and 85/572/EEC.

▼<u>C1</u>

8. Without prejudice to the provisions of Article 3 (2) of Directive 82/711/EEC, migration tests using rectified olive oil or substitutes shall not be carried out to check compliance with the overall migration limit in cases where there is conclusive proof that the specified analytical method is inadequate from a technical standpoint.

In any such case, for substances exempt from specific migration limits or other restrictions in the list provided in Annex II, a generic specific migration limit of 60 mg/kg or 10 mg/dm², according to the case, is applied. However the sum of all specific migration determined shall not exceed the overall migration limit.

ANNEX II

LIST OF MONOMERS AND OTHER STARTING SUBSTANCES WHICH MAY BE USED IN THE MANUFACTURE OF PLASTIC MATERIALS AND ARTICLES

General introduction

- 1. This Annex contains the list of monomers or other starting substances. The list includes:
 - substances undergoing polymerization, which includes polycondensation, polyaddition or any other similar process, to manufacture macromolecules,
 - natural or synthetic macromolecular substances used in the manufacture of modified macromolecules, if the monomers or the other starting substances required to synthesize them are not included in the list,
 - substances used to modify existing natural or synthetic macromolecular substances.
- 2. The list does not include the salts (including double salts and acid salts) of aluminium, ammonium, calcium, iron, magnesium, potassium, sodium and zinc of the authorized acids, phenols or alcohols which are also authorized. However, names containing '... acid(s), salts' appear in the lists if the corresponding free acid(s) is (are) not mentioned. In such cases, the meaning of the term 'salts' is 'salts of aluminium, ammonium, calcium, iron, magnesium, potassium, sodium and zinc'.
- 3. The list also does not include the following substances although they may be present:
 - (a) substances which could be present in the finished product as:
 - impurities in the substances used,
 - reaction intermediates,
 - decomposition products;
 - (b) oligomers and natural or synthetic macromolecular substances as well as their mixtures, if the monomers or starting substances required to synthesize them are included in the list;
 - (c) mixtures of the authorized substances.

The materials and articles which contain the substance indicated under (a), (b) and (c) shall comply with the requirements stated in Article 2 of Directive 89/109/EEC.

- 4. Substances shall be of good technical quality $\blacktriangleright \underline{M3}$ as regards the purity criteria \blacktriangleleft .
- 5. The list contains the following information:
 - column 1 (PM/REF. No): the EEC packaging material references number of the substance on the list,
 - column 2 (CAS No): the CAS (Chemical Abstracts Service) Registry number,
 - column 3 (Name): the chemical name,

▼<u>M5</u>

- Column 4 (Restrictions and/or specifications). These may include:
 - specific migration limit (SML),
 - maximum permitted quantity of the substance in the finished material or article (QM),
 - maximum permitted quantity of the substance in the finished material or article expressed as mg per 6 dm² of the surface in contact with foodstuffs (QMA),
 - any other restriction specifically mentioned,
 - any type of specifications related to the substance or to the polymer.

▼<u>C1</u>

- 6. If a substance appearing on the list as an individual compound is also covered by a generic term, the restrictions applying to this substance shall be those indicated for the individual compound.
- 7. Where there is any inconsistency between the CAS number and the chemical name, the chemical name shall take precedence over the CAS number. If there is an inconsistency between the CAS number reported in EINECS and the CAS Registry, the CAS number in the CAS Registry shall apply.

▼ <u>C1</u>				
	8.			abbreviations or expressions are used in column 4 of the table, of which are as follows:
		DL	=	detection limit of the method of analysis;
		FP	=	finished material or article;
		NCO	=	isocyanate moiety;
▼ <u>M1</u>		ND	=	not detectable.
				For the purpose of this Directive 'not detectable' means that the substance should not be detected by a validated method of analysis which should detect it at the detection limit (DL) specified.
				If such a method does not currently exist, an analytical method with appropriate performance characteristics at the detection limit may be used, pending the development of a validated method.
▼ <u>C1</u>		QM	=	maximum permitted quantity of the 'residual' substance in the material or article;
		QM (T)	=	maximum permitted quantity of the 'residual' substance in the material or article expressed as total of moiety or substance(s) indicated.
▼ <u>M2</u>				For the purpose of this Directive 'QM (T)' means that the maximum permitted quantity of the 'residual' substance in the material or article should be determined by a validated method of analysis at the specified limit. If such a method does not currently exist, an analytical method with appropriate performance characteristics at the specified limit may be used, pending the development of a validated method.
		SML	=	specific migration limit in food or in food simulant, unless it is specified otherwise.
▼ <u>M1</u> ▼C1				For the purpose of this Directive 'SML' means that the specific migration of the substance should be determined by a validated method of analysis at the specified limit. If such a method does not currently exist, an analytical method with appropriate performance characteristics at the specified limit may be used, pending the development of a validated method.
		SML (T)	=	specific migration limit in food or in food simulant expressed as total of moiety or substance(s) indicated.
▼ <u>M2</u>				For the purpose of this Directive 'SML (T)' menas that the specific migration of the substances should be determined by a validated method of analysis at the specified limit. If such a method does not currently exist, an analytical method with appropriate performance characteristics at the specified limit may be used, pending the development of a validated method.

SECTION A

LIST OF AUTHORIZED MONOMERS AND OTHER STARTING SUBSTANCES

	PM/REF No	CAS No	Name	► <u>M5</u> Restrictions and/or specifications ◄
	(1)	(2)	(3)	(4)
	10030	000514-10-3	Abietic acid	
	10060	000075-07-0	Acetaldehyde	► $\underline{M5}$ 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	
▼ <u>M1</u>	10630	000079-06-1	Acrylamide	SML = ND (DL = 0,01 mg/kg)
▼ <u>M3</u>	10660	015214-89-8	2-Acrylamido-2-methylpro- panesulphonic acid	SML = 0,05 mg/kg
▼ <u>C1</u>	10690	000079-10-7	Acrylic acid	
▼ <u>M2</u> ▼C1	10750	002495-35-4	Acrylic acid, benzyl ester	
• <u>C1</u>	10780	000141-32-2	Acrylic acid n-butyl ester	
	10810	002998-08-5	Acrylic acid, sec-butyl ester	
	10840	001663-39-4	Acrylic acid tert-butyl ester	
▼ <u>M5</u>	11000	050976-02-8	Acrylic acid, dicyclopenta- dienyl ester	$QMA = 0.05 mg/6 dm^2$
	11245	002156-97-0	Acrylic acid, dodecyl ester	SML = 0.05 mg/kg (1)
▼ <u>C1</u>				
	11470	000140-88-5	Acrylic acid ethyl ester	
		000818-61-1	Acrylic acid hydroxyethyl ester	See 'Acrylic acid, monoester with ethyleneglycol'
▼ <u>M6</u>	11530	00999-61-1	Acrylic acid, 2-hydroxy- propyl ester	$QMA = 0,05 mg/6 dm^2$
▼ <u>C1</u>	11590	00106-63-8	Acrylic acid, isobutyl ester	
	11680	000689-12-3	Acrylic acid, isopropyl ester	
	11710	000096-33-3	Acrylic acid, methyl ester	
	11830	000818-61-1	Acrylic acid, monoester with ethyleneglycol	
▼ <u>M2</u>	11890	002499-59-4	Acrylic acid, n-octyl ester	
▼ <u>C1</u>	11980	000925-60-0	Acrylic acid, propyl ester	
	12100	000107-13-1	Acrylonitrile	SML = not detectable (DL = 0,020 mg/kg, analytical tolerance)
W 145	12130	000124-04-9	Adipic acid	included)
▼ <u>M5</u>	12265	004074-90-2	Adipic acid, divinyl ester	QM = 5 mg/kg in FP. For use only as comonomer
▼ <u>M1</u>	12280	002035-75-8	Adipic anhydride	
▼ <u>C1</u>	12310		Albumin	

▼ <u>C1</u>				
	PM/REF No	CAS No	Name	► <u>M5</u> Restrictions and/or specifications ◄
	(1)	(2)	(3)	(4)
	12340		Albumin, coagulated by formaldehyde	
	12375		Alcohols aliphatic, mono- hydric, saturated, linear, primary (C4-C22)	
▼ <u>M1</u>	12670	002855-13-2	1-Amino-3-aminomethyl- 3,5,5-trimethylcyclohexane	SML = 6 mg/kg
▼ <u>M5</u>	12761	000693-57-2	12-Aminododecanoic acid	SML = 0,05 mg/kg
▼ <u>M6</u>	12763	00141-43-5	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	84434-12-8	N-(2-aminoethyl)-beta- alanine, sodium salt	SML = 0.05 mg/kg
▼ <u>M1</u>	12788	002432-99-7	11-Aminoundecanoic acid	► <u>M2</u> SML = 5 mg/kg <
▼ <u>M3</u>	12789	007664-41-7	Ammonia	
▼ <u>C1</u>	12820	000123-99-9	Azelaic acid	
▼ <u>M1</u>	12970	004196-95-6	Azelaic anhydride	
▼ <u>C1</u>	13000	001477-55-0	1,3-Benzenedimethanamine	SML = 0.05 mg/kg
▼ <u>M5</u>	13060	004422-95-1	1,3,5-Benzenetricarboxylic acid trichloride	QMA = $0,05 \text{ mg}/6 \text{ dm}^2$ (measured as $1,3,5$ -benzenetricarboxylic acid)
▼ <u>C1</u>	13090	000065-85-0	Benzoic acid	
	13150	000100-51-6	Benzyl alcohol	
		000111-46-6	Bis(2-hydroxyethyl) ether	See 'Diethyleneglycol'
		000077-99-6	2,2-Bis(hydroxymethyl)-1- butanol	See '1,1,1-Trimethylolpropane'
▼ <u>M5</u>	13180	000498-66-8	Bicyclo[2.2.1]hept-2-ene (= norbornene)	SML = 0,05 mg/kg
	13210	001761-71-3	Bis(4-aminocyclohexyl)- methane	SML = 0.05 mg/kg
▼ <u>C1</u>	13390	000105-08-8	1,4-Bis(hydroxymethyl)cy- clohexane	
▼ <u>M6</u>	13395	04767-03-7	2,2-Bis(hydroxymethyl)pro- pionic acid	$QMA = 0.05 mg/6 dm^2$
▼ <u>C1</u>	13480	000080-05-7	2,2-Bis(4-hydroxyphenyl)- propane	SML = 3 mg/kg

	PM/REF No	CAS No	Name	► <u>M5</u> Restrictions and/or specifications ◄
	(1)	(2)	(3)	(4)
<u>M6</u>	13510	01675-54-3	2,2-Bis(4-hydroxyphenyl)- propane bis(2,3- epoxypropyl) ether (= BADGE)	According to Commission Direc- tive 2001/61/EC of 8 August 2001 on the use of certain epoxy deri- vatives in materials and articles intended to come into contact with foodstuffs (OJ L 215, 9.8.2001, p. 26).
<u>C1</u>		000110-98-5	Bis(hydroxypropyl) ether	See 'Dipropyleneglycol'
		005124-30-1	Bis(4-isocyanatocyclohexyl)- methane	See 'Dicyclohexylmethane-4,4'- diisocyanate'
<u>M1</u>	13530	038103-06-9	2,2-Bis(4-hydroxyphenyl)- propane bis(phthalic anhydride)	SML = 0,05 mg/kg
<u>C1</u>	13600	047465-97-4	3,3-Bis(3-methyl-4-hydroxy- phenyl)-2-indolinone	SML = 1,8 mg/kg
		000080-05-7	Bisphenol A	See '2,2-Bis(4-hydroxyphenyl) propane'
<u>M6</u>	13610	01675-54-3	Bisphenol A bis(2,3-epoxy- propyl) ether	See '2,2-Bis(4-hydroxyphenyl)pro pane bis(2,3-epoxypropyl) ether'
<u>M1</u>	13614	038103-06-9	Bisphenol A bis(phthalic anhydride)	See 13530
<u>M6</u>	13617	00080-09-1	Bisphenol S	See '4,4'-Dihydroxydiphenylsul- phone'
<u>C1</u>	13630	000106-99-0	Butadiene	QM = 1 mg/kg in FP or SML = nc detectable (DL = 0,020 mg/kg, analytical tolerance included)
	13690	000107-88-0	1,3-Butanediol	
<u>M5</u>	13780	002425-79-8	1,4-Butanediol bis(2,3-epox- ypropyl) ether	QM = 1 mg/kg in FP (expressed a epoxy group, molecular weight = 43)
<u>M6</u>	13810	00505-65-7	1,4-Butanediol formal	$QMA = 0,05 mg/6 dm^2$
<u>C1</u>	13840	000071-36-3	1-Butanol	
	13870	000106-98-9	1-Butene	
	13900	000107-01-7	2-Butene	
<u>M6</u>	13932	00598-32-3	3-Buten-2-ol	QMA = ND (DL = 0.02 mg/6 dm) To be used only as a co-monome for the preparation of polmeric additive
<u>M5</u>	14020	000098-54-4	4-tert-Butylphenol	SML = 0.05 mg/kg
<u>C1</u>	14110	000123-72-8	Butyraldehyde	
	14140	000107-92-6	Butyric acid	
	14170	000106-31-0	Butyric anhydride	
<u>M6</u>	14200	0105-60-2	Caprolactam	$SML(T) = 15 mg/kg (^{5})$
	14230	02123-24-2	Caprolactam, sodium salt	SML(T) = 15 mg/kg (5) (expressed as caprolactam)

▼ <u>M6</u>				
	PM/REF No	CAS No	Name	► <u>M5</u> Restrictions and/or specifications ◄
-	(1)	(2)	(3)	(4)
▼ <u>C1</u>	1 4 2 2 0	000124.07.2	Compliancial	
	14320 14350	000124-07-2 000630-08-0	Caprylic acid Carbon monoxide	
				OM = 1 m c/hc in ED
▼M3	14380	000075-44-5	Carbonyl chloride	QM = 1 mg/kg in FP
v <u>1415</u>	14411	008001-79-4	Castor oil	
▼ <u>C1</u>	14500	009004-34-6	Cellulose	
	14530	007782-50-5	Chlorine	
	14550	000106-89-8	1-Chloro-2,3-epoxypropane	See 'Epichlorhydrin'
▼M5		000100 09 0	r emore 2,0 eponypropune	
· <u>1/10</u>	14650	000079-38-9	Chlorotrifluoroethylene	$QMA = 0,05 mg/6 dm^2$
▼ <u>C1</u>	14680	000077-92-9	Citric acid	
	14710	000108-39-4	<i>m</i> -Cresol	
	14740	000095-48-7	o-Cresol	
	14770	00106-44-5	p-Cresol	
		000105-08-8	1,4-Cyclohexanedimethanol	See '1,4-Bis(hydroxymethyl)cy- clohexane'
▼ <u>M5</u>	14841	000599-64-4	4-Cumylphenol	SML = 0,05 mg/kg
▼ <u>C1</u>	14950	003173-53-3	Cyclohexyl isocyanate	QM(T) = 1 mg/kg in FP (expressed as NCO)
▼ <u>M6</u>	15030	00931-88-4	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
▼ <u>M3</u>	15070	001647-16-1	1,9-Decadiene	SML = 0,05 mg/kg
▼ <u>M2</u>	15095	000334-48-5	Decanoic acid	
▼ <u>C1</u>	15100	000112-30-1	1-Decanol	
		000107-15-3	1,2-Diaminoethane	See 'Ethylenediamine'
		000124-09-4	1,6-Diaminohexane	See 'Hexamethylenediamine'
▼ <u>M5</u>	15130	000872-05-9	1-Decene	SML = 0,05 mg/kg
▼ <u>M1</u>	15250	000110-60-1	1,4-Diaminobutane	
▼ <u>M6</u>	15370	03236-53-1	1,6-Diamino-2,2,4-trimethyl- hexane	$QMA = 5 mg/6 dm^2$
	15400	03236-54-2	1,6-Diamino-2,4,4-trimethyl- hexane	$QMA = 5 mg/6 dm^2$
▼ <u>M2</u>	15565	000106-46-7	1,4-Dichlorobenzene	SML = 12 mg/kg
▼ <u>M6</u>	15610	00080-07-9	4,4'-Dichlorodiphenyl sulphone	SML = 0,05 mg/kg
▼ <u>C1</u>	15700	005124-30-1	Dicyclohexylmethane-4,4'- diisocyanate	QM(T) = 1 mg/kg in FP (expressed as NCO)
	15760	000111-46-6	Diethyleneglycol	► $\underline{M5}$ SML(T) = 30 mg/kg (3) <

▼ <u>C1</u>				
	PM/REF No	CAS No	Name	► <u>M5</u> Restrictions and/or specifications ◄
	(1)	(2)	(3)	(4)
<u>M2</u>	15790	000111-40-0	Diethylenetriamine	SML = 5 mg/kg
	15820	000345-92-6	4,4'-Difluorobenzophenone	SML = 0,05 mg/kg
<u>C1</u>	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
<u>M6</u>	15970	00611-99-4	4,4'-Dihydroxybenzophe- none	$SML(T) = 6 mg/kg (^{15})$
<u>C1</u>	16000	000092-88-6	4,4'-Dihydroxydiphenyl	SML = 6 mg/kg
▼ <u>M6</u>	16090	00080-09-1	4,4'-Dihydroxydiphenyl sulphone	SML = 0,05 mg/kg
V <u>C1</u>	16150	000108-01-0	Dimethylaminoethanol	SML = 18 mg/kg
	16240	000091-97-4	3,3'-Dimethyl-4,4'-diisocya-	QM(T) = 1 mg/kg in FP (expressed
			natobiphenyl	as NCO)
V <u>M5</u>	16360	000576-26-1	2,6-Dimethylphenol	SML = 0.05 mg/kg
• <u>M6</u>	16390	00126-30-7	2,2-Dimethyl-1,3-propane- diol	SML = 0,05 mg/kg
<u>M5</u>	16450	000646-06-0	1,3-Dioxolane	SML = 0.05 mg/kg
<u>C1</u>	16480	000126-58-9	Dipentaerythritol	
	16570	004128-73-8	Diphenyl ether 4,4'-diisocya- nate	QM(T) = 1 mg/kg in FP (expressed as NCO)
	16600	005873-54-1	Diphenylmethane 2,4'-diiso- cyanate	QM(T) = 1 mg/kg in FP (expressed as NCO)
	16630	000101-68-8	Diphenylmethane 4,4'-diiso- cyanate	QM(T) = 1 mg/kg in FP (expressed as NCO)
	16660	000110-98-5	Dipropyleneglycol	
▼ <u>M5</u>	16694	013811-50-2	N,N'-Divinyl-2-imidazolidi- none	QM = 5 mg/kg in FP
	16704	000112-41-4	1-Dodecene	SML = 0,05 mg/kg
<u>C1</u>	16750	000106-89-8	Epichlorohydrin	QM = 1 mg/kg in FP
	16780	000064-17-5	Ethanol	
	16950	000074-85-1	Ethylene	
	16960	000107-15-3	Ethylenediamine	SML = 12 mg/kg
	16990	000107-21-1	Ethyleneglycol	$\blacktriangleright \underline{M5} \text{ SML}(T) = 30 \text{ mg/kg} (3) \blacktriangleleft$
	17005	000151-56-4	Ethyleneimine	$\mathbf{M1}_{kg} \mathbf{M1} \text{ SML} = \text{ND} (\text{DL} = 0.01 \text{ mg})$
	17020	000075-21-8	Ethylene oxide	QM = 1 mg/kg in FP
• <u>M3</u>	17050	000104-76-7	2-Ethyl-1-hexanol	SML = 30 mg/kg
▼ <u>M2</u>	17160	000097-53-0	Eugenol	M5 SML = ND (DL = 0.02 mg kg, analytical tolerance included)

▼C1

PM/REF No (1) 17170 17200 17230 17260 17290 17530 18010	CAS No (2) 061788-47-4 068308-53-2 061790-12-3 00050-00-0 000110-17-8	Name (3) Fatty acids, coco Fatty acids, soya Fatty acids, tall oil Formaldehyde	► <u>M5</u> Restrictions and/or specifications ◄ (4)
17170 17200 17230 17260 17290 17530	061788-47-4 068308-53-2 061790-12-3 00050-00-0	Fatty acids, coco Fatty acids, soya Fatty acids, tall oil	
17200 17230 17260 17290 17530	068308-53-2 061790-12-3 00050-00-0	Fatty acids, soya Fatty acids, tall oil	
17230 17260 17290 17530	061790-12-3 00050-00-0	Fatty acids, soya Fatty acids, tall oil	
17260 17290 17530	00050-00-0		
17290 17530		Formaldehyde	
17530	000110-17-8		$SML(T) = 15 mg/kg (^{22})$
17530		Fumaric acid	
18010	000050-99-7	Glucose	
	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	Hexachloroendomethylenete- trahydrophthalic acid	SML = ND (DL = 0,01 mg/kg)
18280	000115-27-5	Hexachloroendomethylenete- trahydrophthalic anhydride	SML = ND (DL = 0,01 mg/kg)
18310	036653-82-4	1-Hexadecanol	
18430	000116-15-4	Hexafluoropropylene	SML = ND (LD = 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 in FP (expressed as NCO)
18670	00100-97-0	Hexamethylenetetramine	$SML(T) = 15 \text{ mg/kg} (^{22}) \text{ (expressed as formaldehyde)}$
	000123-31-9	Hydroquinone	See '1,4-Dihydroxybenzene'
18820	000592-41-6	1-Hexene	SML = 3 mg/kg
18880	000099-96-7	P-Hydroxybenzoic acid	
		Isobutene	
19060	000109-53-5	Isobutyl vinyl ether	QM = 5 mg/kg in FP
19110	04098-71-9	1-Isocyanato-3-isocyanato- methyl-3,5,5-trimethylcyclo-	QM(T) = 1 mg/kg in FP (as NCO)
19150	000121-91-5		SML = 5 mg/kg
19210	001459-93-4	Isophthalic acid, dimethyl	SML = 0.05 mg/kg
19243	00078-79-5	ester Isoprene	Voir '2-Methyl-1,3-butadiene'
19270	000097-65-4	Itaconic acid	· · ·
	18070 18100 18220 18250 18280 18310 18430 18460 18640 18640 18670 18880 19000 19060 19110 19150 19210	18070000108-55-418100000056-81-518220068564-88-518250000115-28-618280000115-27-518310036653-82-418430000116-15-418460000124-09-418640000124-09-418640000123-31-918820000592-41-618880000099-96-719000000109-53-51911004098-71-919150000121-91-519210001459-93-41924300078-79-5	18070000108-55-4Glutaric anhydride18100000056-81-5Glycerol18220068564-88-5N-Heptylaminoundecanoic acid18250000115-28-6Hexachloroendomethylenete- trahydrophthalic acid18280000115-27-5Hexachloroendomethylenete- trahydrophthalic anhydride18310036653-82-4I-Hexadecanol18430000116-15-4Hexafluoropropylene18460000124-09-4Hexamethylenediamine Hexamethylene diisocyanate1867000100-97-0Hexamethyleneteramine18670000123-31-9Hydroquinone18820000592-41-6I-Hexene18820000099-96-7P-Hydroxybenzoic acid Isobutene19060000109-53-5Isobutyl vinyl ether1911004098-71-9I-Isocyanato-3-isocyanato- methyl-3,5,5-trimethylcyclo- hexane19150000121-91-5Isophthalic acid, dimethyl ester1921000182-93-4Isophthalic acid, dimethyl ester

▼ <u>M3</u>				
	PM/REF No	CAS No	Name	► <u>M5</u> Restrictions and/or specifications ◄
	(1)	(2)	(3)	(4)
▼ <u>M4</u>	19460	000050-21-5	Lactic acid	
▼ <u>M1</u>	19470	000143-07-7	Lauric acid	
▼ <u>M4</u>	19480	002146-71-6	Lauric acid, vinyl ester	
▼ <u>M6</u>	19490	00947-04-6	Laurolactam	SML = 5 mg/kg
▼ <u>C1</u>	19510	011132-73-3	Lignocellulose	
▼ <u>M6</u>	19540	00110-16-7	Maleic acide	SML(T) = 30 mg/kg (4)
	19960	00108-31-6	Maleic anhydride	SML(T) = 30 mg/kg (⁴) (expressed as maleic acid)
▼ <u>C1</u>		000108-78-1	Melamine	See '2,4,6-Triamino-1,3,5-triazine'
▼ <u>M5</u>	19990	000079-39-0	Methacrylamide	SML = ND (DL = 0.02 mg/kg, analytical tolerance included)
▼ <u>C1</u>	20020	000079-41-4	Methacrylic acid	
▼ <u>M5</u>	20050	000096-05-9	Methacrylic acid, allyl ester	SML = 0,05 mg/kg
▼ <u>M2</u>	20080	002495-37-6	Methacrylic acid, benzyl ester	
▼ <u>C1</u>	20110	000097-88-1	Methacrylic acid, butyl ester	
	20110	002998-18-7	Methacrylic acid, sec-butyl ester	
	20170	000585-07-9	Methacrylic acid, tert-butyl ester	
▼ <u>M6</u>	20260	00101-43-9	Methacrylic acid, cyclohexyl ester	SML = 0,05 mg/kg
	20410	02082-81-7	Methacrylic acid, diester with 1,4-butanediol	SML = 0,05 mg/kg
▼ <u>M5</u>	20530	002867-47-2	Methacrylic acid, 2- (dimethylamino)ethyl ester	SML = ND (DL = 0.02 mg/kg, analytical tolerance included)
▼ <u>M6</u>	20590	00106-91-2	Methacrylic acid, 2,3-epoxy- propyl ester	$QMA = 0,02 mg/6 dm^2$
▼ <u>C1</u>	20890	000097-63-2	Methacrylic acid, ethyl ester	
	21010	000097-86-9	Methacrylic acid, isobutyl ester	
	21100	004655-34-9	Methacrylic acid, isopropyl ester	
	21130	000080-62-6	Methacrylic acid, methyl ester	
▼ <u>M1</u>	21190	000868-77-9	Methacrylic acid, monoester with ethyleneglycol	
▼ <u>M2</u>	21280	002177-70-0	Methacrylic acid, phenyl ester	

▼ <u>M2</u>				
	PM/REF No	CAS No	Name	► <u>M5</u> Restrictions and/or specifications ◄
	(1)	(2)	(3)	(4)
C <u>1</u>	21340	002210-28-8	Methacrylic acid, propyl ester	
	21460	000760-93-0	Methacrylic anhydride	
	21490	000126-98-7	Methacrylonitrile	SML = non detectable (DL = 0,020 mg/kg, analytical tolerance included)
<u>M6</u>	21520	01561-92-8	Methallylsulphonic acid, sodium salt	SML = 5 mg/kg
<u>C1</u>	21550	000067-56-1	Methanol	
▼ <u>M6</u>	21640	00078-79-5	2-Methyl-1,3-butadiene	QM = 1 mg/kg in FP or SML = ND ($DL = 0.02 mg/kg$, analytical tolerance included)
• <u>M5</u>	21730	000563-45-1	3-Methyl-1-butene	$QMA = 0,006 \text{ mg/6 } \text{dm}^2$. For use only in polypropylene.
• <u>M6</u>	21765	106246-33-7	4,4'-Methylenebis(3-chloro- 2,6-diethylaniline)	$QMA = 0.05 mg/6 dm^2$
	21821	00505-65-7	1,4-(Methylenedioxy)butane	See '1,4-Butanediol formal'
<u>M1</u>	21940	000924-42-5	N-Methylolacrylamide	SML = ND (DL = 0.01 mg/kg)
<u>C1</u>	22150	000691-37-2	4-Methyl-1-pentene	▶ <u>M1</u> SML = 0,02 mg/kg ◀
• <u>M5</u>	22331	025513-64-8	Mixture of (40 % w/w) 1,6- diamino-2,2,4-trimethyl- hexane and (60 % w/w) 1,6- diamino-2,4,4-trimethyl- hexane	$QMA = 5 mg/6 dm^2$
• <u>M1</u>	22350	000544-63-8	Myristic acid	
▼ <u>M6</u>	22360	01141-38-4	2,6-Naphthalenedicarboxylic acid	SML = 5 mg/kg
▼ <u>M2</u>	22390	000840-65-3	2,6-Naphthalenedicarboxylic acid, dimethyl ester	SML = 0.05 mg/kg
<u>C1</u>	22420	003173-72-6	1,5-Napthalene diisocyanate	QM(T) = 1 mg/kg in FP (expressed as NCO)
▼ <u>M6</u>	22437	00126-30-7	Neopentylglycol	See '2,2-Dimethyl-1,3-propane- diol'
<u>C1</u>	22450	009004-70-0	Nitrocellulose	
	22480	000143-08-8	1-Nonanol	
<u>M5</u>	22550	000498-66-8	Norbornene	See 'Bicyclo[2.2.1]hept-2-ene'
<u>C1</u>	22570	000112-96-9	Octadecyl isocyanate	QM(T) = 1 mg/kg in FP (expressed as NCO)
	22600	000111-87-5	1-Octanol	
	22660	000111-66-0	1-Octene	SML = 15 mg/kg

▼M2

▼ <u>C1</u>				
	PM/REF No	CAS No	Name	► <u>M5</u> Restrictions and/or specifications ◄
	(1)	(2)	(3)	(4)
• <u>M1</u>	22763	000112-80-1	Oleic acid	
• <u>M6</u>	22778	07456-68-0	4,4'-Oxybis(benzenesul- phonyl azide)	$QMA = 0,05 mg/6 dm^2$
• <u>C1</u>	22780	000057-10-3	Palmitic acid	
	22840	000115-77-5	Pentaerythritol	
	22870	000071-41-0	1-Pentanol	
• <u>M6</u>	22900	00109-67-1	1-Pentene	SML = 5 mg/kg
• <u>M5</u>	22937	001623-05-8	Perfluoropropyl perfluoro- vinyl ether	SML = 0.05 mg/kg
• <u>C1</u>	22960	000108-95-2	Phenol	
▼ <u>M6</u>	23050	00108-45-2	1,3-Phenylenediamine	SML = ND (DL = 0,02 mg/kg, analytical tolerance included)
▼ <u>C1</u>		000075 44 5	Dhaacaa	Can (Carborril ablarida)
	22170	000075-44-5	Phosgene	See 'Carbonyl chloride'
	23170	007664-38-2	Phosphoric acid	
			Phthalic acid	See 'Terephthalic acid'
/ <u>M5</u>	23175	000122-52-1	Phosphorous acid, triethyl ester	QM = ND (DL = 1 mg/kg in FP)
• <u>M1</u>	23200	000088-99-3	o-Phthalic acid	
	23230	000131-17-9	Phthalic acid, diallyl ester	SML = ND (DL = 0.01 mg/kg)
<u>C1</u>				
	23380	000085-44-9	Phthalic anhydride	
	23470	000080-56-8	alpha-Pinene	
	23500	000127-91-3	beta-Pinene	
• <u>M5</u>	23547	009016-00-6 063148-62-9	Polydimethylsiloxane (MW > 6800)	In compliance with the specifica- tions laid down in Annex V
▼ <u>C1</u>	22500	025222 68 2	Delusthulaneelusel	
	23590	025322-68-3	Polyethyleneglycol	
	23650	025322-69-4	Polypropyleneglycol (Mole- cular weight greater than 400)	
• <u>M4</u>	23651	025322-69-4	Polypropyleneglycol	
V <u>C1</u> V <u>M5</u>	23740	000057-55-6	1,2-Propanediol	
V <u>M5</u> V <u>C1</u>	23770	000504-63-2	1,3-Propanediol	SML = 0.05 mg/kg
· <u>~ ·</u>	23800	000071-23-8	1-Propanol	
	23830	000067-63-0	2-Propanol	
	23860	000123-38-6	Propionaldehyde	
	23890	000079-09-4	Propionic acid	
▼ <u>M5</u>	23920	000105-38-4	Propionic acid, vinyl ester	SML(T) = 6 mg/kg (2) (expressed as acetaldehyde)

▼ <u>M5</u>				
	PM/REF No	CAS No	Name	► <u>M5</u> Restrictions and/or specifications ◄
	(1)	(2)	(3)	(4)
▼ <u>C1</u>	22050	000102 (2 (D 1 1 1 1 1	
	23950	000123-62-6	Propionic anhydride	
	23980	000115-07-1	Propylene	
	24010	000075-56-9	Propylene oxide	QM = 1 mg/kg in FP
V M2		000120-80-9	Pyrocatechol	See '1,2-Dihydroxybenzene'
▼ <u>M2</u>	24057	000089-32-7	Pyromellitic anhydride	SML = 0,05 mg/kg (expressed as pyromellitic acid)
▼ <u>C1</u>	24070	073138-82-6	Resin acids and rosin acids	
	24070	000108-46-3	Resorcinol	See '1,3-Dihydroxybenzene'
▼ M6		000108-40-3	Resolution	See 1,3-Dillydroxybenzene
	24073	000101-90-6	Resorcinol diglycidyl ether	QMA = 0,005 mg/6 dm ² . 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
▼ <u>C1</u>	24100	008050-09-7	Rosin	
	24130	008050-09-7	Rosin gum	► M3 See 'Rosin' ◄
	24160	008052-10-6	Rosin tall oil	
	24190	009014-63-5	Rosin wood	
	24250	009006-04-6	Rubber, natural	
▼ <u>M1</u>	24270	000069-72-7	Salicylic acid	
▼ <u>C1</u>	24280	000111-20-6	Sebacic acid	
▼ <u>M1</u>	24430	002561-88-8	Sebacic anhydride	
▼ <u>M2</u>	24475	001313-82-2	Sodium sulphide	
▼ <u>C1</u>	24490	000050-70-4	Sorbitol	
	24520	008001-22-7	Soybean oil	
▼ <u>M2</u>	24540	009005-25-8	Starch, edible	
▼ <u>C1</u>	24550	000057-11-4	Stearic acid	
	24330 24610	000100-42-5	Stearre acid	
V M5	24010	000100-42-3	Stylene	
▼ <u>M5</u>	24760	026914-43-2	Styrenesulphonic acid	SML = 0.05 mg/kg
▼ <u>C1</u>	24820	000110-15-6	Succinic acid	
▼ <u>M1</u>	24850	000108-30-5	Succinic anhydride	
▼ <u>C1</u>	24880	000057-50-1	Sucrose	
▼ <u>M1</u>	24887	006362-79-4	5-Sulphoisophthalic acid, monosodium salt	► <u>M3</u> SML = 5 mg/kg ◀
▼ <u>M2</u>	24888	003965-55-7	5-Sulphoisophthalic acid, monosodium salt, dimethyl ester	SML = 0,05 mg/kg

▼ <u>M2</u>				
	PM/REF No	CAS No	Name	► <u>M5</u> Restrictions and/or specifications ◀
	(1)	(2)	(3)	(4)
▼ <u>C1</u>	24910	000100-21-0	Terephthalic acid	SML = 7,5 mg/kg
▼ <u>M2</u>	24940	000100-20-9	Terephtalic acid dichloride	SML(T) = 7,5 mg/kg (expressed as terephtalic acid)
▼ <u>C1</u>	24970	000120-61-6	Terephthalic acid, dimethyl ester	
▼ <u>M5</u>	25080	001120-36-1	1-Tetradecene	SML = 0.05 mg/kg
▼ <u>C1</u> ▼M2	25090	000112-60-7	Tetraethyleneglycol	
- ~1	25120	000116-14-3	Tetrafluoroethylene	SML = 0.05 mg/kg
▼ <u>C1</u>	25150	000109-99-9	Tetrahydrofuran	SML = 0.6 mg/kg
	25180	000102-60-3	N,N,N',N'-Tetrakis(2-hydro- xypropyl)ethylenediamine	
	25210	000584-84-9	2,4-Toluene diisocyanate	QM(T) = 1 mg/kg in FP (expressed as NCO)
	25240	000091-08-7	2,6-Toluene diisocyanate	QM(T) = 1 mg/kg in FP (expressed as NCO)
	25270	026747-90-0	2,4-Toluene diisocyanate dimer	QM(T) = 1 mg/kg in FP (expressed as NCO)
	25360		Trialkyl(C5-C15)acetic acid, 2,3-epoxypropyl ester	► $M5$ QM = 1 mg/kg in FP (expressed as epoxy group, mole- cular weight = 43) \blacktriangleleft
▼ <u>M6</u>	25380	_	Trialkyl acetic acid (C7- C17), vinyl esters (= vinyl versatate)	$QMA = 0.05 mg/6 dm^2$
▼ <u>M5</u>	25385	000102-70-5	Triallylamine	In compliance with the specifica- tions laid down in Annex V
▼ <u>C1</u>	25420	000108-78-1	2,4,6-Triamino-1,3,5-triazine	SML = 30 mg/kg
▼ <u>M6</u>	25450	26896-48-0	Tricyclodecanedimethanol	SML = 0.05 mg/kg
▼ <u>C1</u>	25510	000112-27-6	Triethyleneglycol	
	25600	000077-99-6	1,1,1-Trimethylolpropane	SML = 6 mg/kg
▼ <u>M6</u>	25900	00110-88-3	Trioxane	SML = 0.05 mg/kg
▼ <u>M1</u>	25910	024800-44-0	Tripropyleneglycol	
▼ <u>M5</u>	25927	027955-94-8	1,1,1-Tris(4-hydroxypheny- 1)ethane	QM = 0.5 mg/kg in FP. For use only in polycarbonates
▼ <u>C1</u>	25960	000057-13-6	Urea	
	26050	000075-01-4	Vinyl chloride	See Council Directive 78/142/EEC
	26030	000075-35-4	Vinylidene chloride	QM = 5 mg/kg in FP or SML = not
				detectable (DL = $0,05 \text{ mg/kg}$)
▼ <u>M3</u>	26140	000075-38-7	Vinylidene fluoride	SML = 5 mg/kg
▼ <u>M5</u>	26155	001072-63-5	1-Vinylimidazole	QM = 5 mg/kg in FP

▼<u>M5</u>

PM/REF No	CAS No	Name	► <u>M5</u> Restrictions and/or specifications ◄
(1)	(2)	(3)	(4)
26320	002768-02-7	Vinyltrimethoxysilane	QM = 5 mg/kg in FP
26360	007732-18-5	Water	In compliance with Directive 98/ 83/EC
26170	003195-78-6	N-Vinyl-N-methylacetamide	QM = 2 mg/kg in FP

▼<u>M6</u>

SECTION B

LIST OF MONOMERS AND OTHER STARTING SUBSTANCES WHICH MAY CONTINUE TO BE USED PENDING A DECISION ON INCLUSION IN SECTION A

Ref. No	CAS No	Name	Restrictions and/or specifications
10599/90A	61788-89-4	Acids, fatty, unsaturated (C18), dimers, distilled	
10599/91	61788-89-4	Acids, fatty, unsaturated (C18), dimers, non-distilled	
10599/92A	68783-41-5	Acids, fatty, unsaturated (C18), dimers, hydrogenated, distilled	
10599/93	68783-41-5	Acids, fatty, unsaturated (C18), dimers, hydrogenated, non-distilled	
11500	00103-11-7	Acrylic acid, 2-ethylhexyl ester	
13050	00528-44-9	1,2,4-Benzenetricarboxylic acid	See 'Trimellitic acid'
13075	00091-76-9	Benzoguanamine	See '2,4-Diamino-6-phenyl-1,3,5 triazine'
13720	00110-63-4	1,4-Butanediol	
14260	00502-44-3	Caprolactone	
14800	03724-65-0	Crotonic acid	
15310	00091-76-9	2,4-Diamino-6-phenyl-1,3,5- triazine	
15730	00077-73-6	Dicyclopentadiene	
16210	06864-37-5	3,3'-Dimethyl-4-4'-diamino- dicyclohexylmethane	
16690	01321-74-0	Divinylbenzene	
16697	00693-23-2	Dodecanedioic acid	
17110	16219-75-3	5-Ethylidenebicyclo[2.2.1]- hept-2-ene	
18370	00592-45-0	1,4-Hexadiene	
18700	00629-11-8	1,6-Hexanediol	
21370	10595-80-9	Methacrylic acid, 2- sulphoethyl ester	
21400	54276-35-6	Methacrylic acid, sulpho- propyl ester	
21970	00923-02-4	N-methylolmethacrylamide	
22210	00098-83-9	Alpha-methylstyrene	
25540	00528-44-9	Trimellitic acid	QM(T) = 5 mg/kg in FP
25550	00552-30-7	Trimellitic anhydride	QM(T) = 5 mg/kg in FP (expresse as trimellitic acid)

▼<u>M6</u>

Ref. No	CAS No	Name	Restrictions and/or specifications
25840	03290-92-4	1,1,1-Trimethylolpropane trimethacrylate	
26230	00088-12-0	Vinylpyrrolidone	

ANNEX III

INCOMPLETE LIST OF ADDITIVES WHICH MAY BE USED IN THE MANUFACTURE OF PLASTICS MATERIALS AND ARTICLES

General introduction

- 1. This Annex contains the list of:
 - (a) substances which are incorporated into plastics to achieve a technical effect in the finished product. They are intended to be present in the finished articles;
 - (b) substances used to provide a suitable medium in which polymerization occurs (e.g. emulsifiers, surfactants, buffering agents etc.).

The list does not include the substances which directly influence the formation of polymers (e.g. the catalytic system).

- 2. The list does not include the salts (including double salts and acid salts) of aluminium, ammonium, calcium, iron, magnesium, potassium, sodium and zinc of the authorized acids, phenols or alcohols which are also authorized. However, names containing '...acid(s), salts' appear in the lists if the corresponding free acid(s) is (are) not mentioned. In such cases, the meaning of the term 'salts' is 'salts of aluminium, ammonium, calcium, iron, magnesium, potassium, sodium and zinc'.
- 3. The list does not include the following substances although they may be present:
 - (a) substances which could be present in the finished product such as:
 - impurities in the substances used,
 - reaction intermediates,
 - decomposition products;
 - (b) mixtures of the authorized substances.

The materials and articles which contain the substances indicated in (a) and (b) shall comply with the requirements stated in Article 2 of Directive 89/109/EEC.

- 4. Substances shall be of good technical quality as regards the purity criteria.
- 5. The list contains the following information:
 - column 1 (PM-REF No): the EEC packaging material reference number of the substances on the list,
 - column 2 (CAS No): the CAS (Chemical Abstracts Service) registry number,
 - column 3 (Name): the chemical name,
 - Column 4 (Restrictions and/or specifications). These may include:
 - specific migration limit (SML),
 - maximum permitted quantity of the substance in the finished materil or article (QM),
 - maximum permitted quantity of the substance in the finished material or article expressed as mg per 6 dm² of the surface in contact with foodstuffs (QMA),
 - any other restriction specifically laid down,
 - any type of specification related to the substance or to the polymer.

▼<u>M3</u>

▼M5

- 6. If a substance appearing on the list as an individual compound is also covered by a generic term, the restrictions applying to this substance shall be those indicated for the individual compound.
- 7. Where there is any inconsistency between the CAS number and the chemical name, the chemical name shall take precedence over the CAS number. If there is an inconsistency between the CAS number reported in Einecs and the CAS registry, the CAS number in the CAS registry shall apply.

▼<u>M6</u>

SECTION A

Incomplete list of additives fully harmonised at Community level

▼ <u>M3</u>				
_	PM/Ref No	CAS No	Name	► <u>M5</u> Restrictions and/or specifications ◄
-	(1)	(2)	(3)	(4)
-	30000	000064-19-7	Acetic acid	
	30045	000123-86-4	Acetic acid, butyl ester	
▼ <u>M5</u>	30080	004180-12-5	Acetic acid, copper salt	SML(T) = 30 mg/kg (7) (expressed as copper)
▼ <u>M3</u>	30140	000141-78-6	Acetic acid, ethyl ester	
	30280	000108-24-7	Acetic anhydride	
	30295	000067-64-1	Acetone	
	30370		Acetylacetic acid, salts	
	30400		Acetylated glycerides	
▼ <u>M5</u>	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	
▼ <u>M3</u>	30960	_	Acids aliphatic monocar- boxylic (C ₆ -C ₂₂) esters with polyglycerol	
	31328	—	Acids, fatty, from animal or vegetable food fats and oils	
▼ <u>M5</u>	31530	123968-25-2	Acrylic acid, 2,4-di-tert- pentyl-6-[1-(3,5-di-tert- pentyl-2-hydroxypheny- l)ethyl]phenyl ester	SML = 5 mg/kg
▼ <u>M3</u>	21720	000104.04.0	A 19 9 9 1	
	31730 33120	000124-04-9	Adipic acid Alcohols, aliphatic, mono- hydric, saturated, linear, primary (C_4 - C_{24})	
	33350	009005-32-7	Alginic acid	
▼M5			~	
	33801	_	n-Alkyl(C10-C13)benzene- sulphonic acid	SML = 30 mg/kg
	34240	—	Alkyl(C10-C20)sulphonic acid,	SML = 6 mg/kg. Authorised until 1 January 2002
▼ <u>M4</u>	34281	_	Alkyl(C_g - C_{22}) sulphoric acids, linear, primary, with an even number of carbon atoms	
	34475	_	Aluminium calcium hydro- xide phosphite, hydrate	
▼ <u>M3</u>	34480	_	Aluminium fibers, flakes and powders	
	34560	021645-51-2	Aluminium hydroxide	

v <u>IVI3</u>				•
	PM/Ref No	CAS No	Name	► <u>M5</u> Restrictions and/or specifications ◄
	(1)	(2)	(3)	(4)
	34690	011097-59-9	Aluminium magnesium carbonate hydroxide	
	34720	001344-28-1	Aluminium oxide	
	35120	013560-49-1	3-Aminocrotonic acid, diester with thiobis (2- hydroxyethyl) ether	
▼ <u>M6</u>	35160	06642-31-5	6-Amino-1,3-dimethyluracil	SML = 5 mg/kg
	35170	00141-43-5	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	00111-41-1	N-(2-aminoethyl)ethanola- mine	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
▼ <u>M3</u>	35320	007664-41-7	Ammonia	
	35440	012124-97-9	Ammonium bromide	
	35600	001336-21-6	Ammonium hydroxide	
	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	
▼ <u>M5</u>	36640	000123-77-3	Azodicarbonamide	For use only as a blowing agent
▼ <u>M3</u>	• • • • • •			
	36880	008012-89-3	Beeswax	
	36960	003061-75-4	Behenamide	
	37040	000112-85-6	Behenic acid	
	37280	001302-78-9	Bentonite	
▼ <u>M5</u>	37360	000100-52-7	Benzaldehyde	In compliance with note 10 in Annex VI
▼ <u>M3</u>	27(00	000065 85 0	Danasia asi l	
	37600	000065-85-0	Benzoic acid	
	37680 37840	000130-00-7	Benzoic acid, butyl ester	
	37840	000093-89-0	Benzoic acid, ethyl ester Benzoic acid, methyl ester	
	38160	002315-68-6	Benzoic acid, propyl ester	
▼M5	38100	002313-08-0	Benzoie acia, propyr ester	
v <u>IVI5</u>	38320	005242-49-9	4-(2-Benzoxazolyl)-4'-(5- methyl-2-benzoxazolyl)stil- bene	In compliance with the specifica- tions laid down in Annex V
	38510	136504-96-6	1,2-Bis(3-aminopropyl)ethy- lenediamine, polymer with N-butyl-2,2,6,6-tetramethyl- 4-piperidinamine and2,4,6- trichloro-1,3,5-triazine	SML = 5 mg/kg
▼ <u>C2</u>	38515	001533-45-5	4,4'-Bis(2-benzoxazolyl)stil- bene	SML = 0.05 mg/kg (1)

▼ <u>C2</u>				
-	PM/Ref No	CAS No	Name	► <u>M5</u> Restrictions and/or specifications ◄
-	(1)	(2)	(3)	(4)
▼ <u>M5</u>	38810	080693-00-1	Bis(2,6-di-tert-butyl-4- methylphenyl)pentaerythritol diphosphite	SML = 5 mg/kg (sum of phosphite and phosphate)
▼ <u>M6</u>	38840	154862-43-8	Bis(-2,4-dicumylphenyl)pen- taerythritoldiphosphite	SML = 5 mg/kg (as sum of the substance itself, its oxidised form bis (2,4-dicumylphenyl)pentaery- thritol-phosphate and its hydrolysis product (2,4-dicumylphenol)
▼ <u>M5</u>	38879	135861-56-2	Bis(3,4-dimethylbenzylide- ne)sorbitol	
▼ <u>M3</u>	38950	079072-96-1	Bis (4-ethylbenzylidene) sorbitol	
▼ <u>M5</u>	39200	006200-40-4	Bis(2-hydroxyethyl)-2- hydroxypropyl-3-(dodecylox- y)methylammonium chloride	SML = 1,8 mg/kg
▼ <u>C2</u>	39815	182121-12-6	9,9-Bis(methoxymethyl)- fluorene	$QMA = 0.05 mg/6 dm^2$
▼ <u>M3</u>	39890	► <u>M5</u> 087826-41-3	Bis (methylbenzylidene) sorbitol	
		► <u>M5</u> 069158-41-4 ► M5		
		054686-97-4 ◄		
-		► <u>M5</u> 081541-12-0		
▼ <u>M6</u>	39925	129228-21-3	3,3-Bis(methoxymethyl)-2,5 -dimethyl hexane	SML = 0,05 mg/kg
	40020	110553-27-0	2,4-Bis(octylthiomethyl)-6- methylphenol	SML = 6 mg/kg
	40120	_	Bis (polyethyleneglycol)hy- droxymethylphosphonate	SML = 0,6 mg/kg and authorised until 1 January 2004
▼ <u>M3</u>	40400	010043-11-5	Boron nitride	
	40570	000106-97-8	Butane	
	41040	005743-36-2	Calcium butyrate	
▼ <u>M6</u>	41120	10043-52-4	Calcium chloride	
▼ <u>M3</u>	41280	001305-62-0	Calcium hydroxide	
	41280	001305-02-0	Calcium oxide	
	41520	012004-14-7	Calcium sulphoaluminate	
▼ <u>M5</u>	41680	000076-22-2	Camphor	In compliance with note 10 in
▼ <u>M3</u>		037293-22-4		Annex VI

▼ <u>M3</u>				
	PM/Ref No	CAS No	Name	► <u>M5</u> Restrictions and/or specifications ◄
	(1)	(2)	(3)	(4)
	41760	008006-44-8	Candelilla wax	
▼ <u>M6</u>	41840	00105-60-2	Caprolactam	$SML(T) = 15 mg/kg (^{5})$
▼ <u>M3</u>	41960	000124-07-2	Caprylic acid	
	42160	000124-38-9	Carbon dioxide	
▼ <u>M5</u> ▼ <u>C2</u>	42320	007492-68-4	Carbonic acid, copper salt	SML(T) = 30 mg/kg (7) (expressed as copper)
▼ <u>M3</u>	42500	_	Carbonic acid, salts	
	42640	009000-11-7	Carboxymethylcellulose	
	42720	008015-86-9	Carnauba wax	
	42800	009000-71-9	Casein	
	42960	064147-40-6	Castor oil, dehydrated	
	43200	_	Castor oil, mono- and digly- cerides	
	43280	009004-34-6	Cellulose	
	43300	009004-36-8	Cellulose acetate butyrate	
	43360	068442-85-3	Cellulose, regenerated	
	43440	008001-75-0	Ceresin	
<u>M5</u>	43515	_	Chlorides of choline esters of coconut oil fatty acids	$QMA = 0.9 mg/6 dm^2$
/ <u>M3</u>	44160	000077-92-9	Citric acid	
	44640	000077-93-0	Citric acid, triethyl ester	
<u>M5</u>	45195	007787-70-4	Copper bromide	SML(T) = 30 mg/kg (7) (expressed as copper)
▼ <u>M6</u>	45200	01335-23-5	Copper iodide	SML(T) = 30 mg/kg (⁷) (expressed as copper) and SML = 1 mg/kg (¹¹) (expressed as iodine)
<u>M3</u>	45280	_	Cotton fibers	
/ <u>M5</u>	45450	068610-51-5	p-Cresol-dicyclopentadiene- isobutylene, copolymer	SML = 0,05 mg/kg (1)
<u>M3</u>	45560	014464-46-1	Cristobalite	
	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	
• <u>M4</u>	46380	068855-54-9	Diatomaceous earth, soda ash flux-calcined	

▼ <u>M4</u>				
	PM/Ref No	CAS No	Name	► <u>M5</u> Restrictions and/or specifications ◀
•	(1)	(2)	(3)	(4)
▼ <u>M3</u>	46480	032647-67-9	Dibenzylidene sorbitol	
	46790	004221-80-1	3,5-Di-tert-butyl-4-hydroxy- benzoic acid, 2,4-di-tert- butylphenyl ester	
	46800	067845-93-6	3,5-Di-tert-butyl-4-hydroxy- benzoic acid, hexadecyl ester	
	46870	003135-18-0	3,5-Di-tert-butyl-4-hydroxy- benzylphosphonic acid, dioctadecyl ester	
▼ <u>M5</u>	46880	065140-91-2	3,5-Di-tert-butyl-4-hydroxy- benzyl phosphonic acid, monoethyl ester, calcium salt	SML = 6 mg/kg
▼ <u>M6</u>	47210	26427-07-6	Dibutylthiostannoic acid polymer [= thiobis(butyl-tin sulphide), polymer]	In compliance with the specifica- tions laid down in Annex V
▼ <u>M3</u>	47440	000461-58-5	Dicyanodiamide	
▼ <u>M6</u>	47540	27458-90-8	Di-tert-dodecyl disulfide	SML = 0,05 mg/kg
$\bigvee \frac{M5}{C2}$	47680	000111-46-6	Diethyleneglycol	SML(T) = 30 mg/kg (3)
▼ <u>M5</u>	48460	000075-37-6	1,1-Difluoroethane	
▼ <u>M6</u>	48620	00123-31-9	1,4-Dihydroxybenzene	SML = 0.6 mg/kg
	48720	00611-99-4	4,4'-Dihydroxybenzophe- none	$SML(T) = 6 mg/kg (^{15})$
▼ <u>M5</u>	49485	134701-20-5	2,4-Dimethyl-6-(1-methyl- pentadecyl)phenol	SML = 1 mg/kg
▼ <u>M3</u>	49540	000067-68-5	Dimethyl sulphoxide	
	51200	000126-58-9	Dipentaerythritol	
▼ <u>M5</u> ▼ <u>C2</u>	51700	147315-50-2	2-(4,6-Diphenyl-1,3,5- triazin-2-yl)-5-(hexyloxy)- phenol	SML = 0,05 mg/kg
▼ <u>M3</u>	51760	025265-71-8	Dipropyleneglycol	
		000110-98-5		
▼M6	52640	016389-88-1	Dolomite	
	52645	10436-08-5	Cis-11-eicosenamide	
▼ <u>M4</u>	52720	000112-84-5	Erucamide	
▼ <u>M3</u>	52730	000112-86-7	Erucic acid	
	52800	000064-17-5	Ethanol	
	53270	037205-99-5	Ethylcarboxymethylcellulose	
	53280	009004-57-3	Ethylcellulose	
	53360	000110-31-6	N,N'-Ethylenebisoleamide	

▼<u>M4</u>

• <u>N15</u>	PM/Ref No	CAS No	Name	► <u>M5</u> Restrictions and/or specifications ◄
-	(1)	(2)	(3)	(4)
_	53440	005518-18-3	N,N'-Ethylenebispalmita- mide	
	53520	000110-30-5	N,N'-Ethylenebisstearamide	
	53600	000060-00-4	Ethylenediaminetetraacetic acid	
▼ <u>M5</u> ▼ <u>C2</u>	53610	054453-03-1	Ethylenediaminetetraacetic acid, copper salt	SML(T) = 30 mg/kg (7) (expressed as copper)
▼ <u>M5</u>	53650	000107-21-1	Ethyleneglycol	SML(T) = 30 mg/kg (3)
▼ <u>M3</u>	54005	005136-44-7	Ethylene-N-palmitamide-N'- stearamide	
	54260	009004-58-4	Ethylhydroxyethylcellulose	
	54270	_	Ethylhydroxymethylcellulose	
	54280	_	Ethylhydroxypropylcellulose	
▼ <u>M5</u>	54300	118337-09-0	2,2'Ethylidenebis(4,6-di-tert- butylphenyl) fluorophospho- nite	SML = 6 mg/kg
▼ <u>M3</u>	54450	_	Fats and oils, from animal or vegetable food sources	
	54480	_	Fats and oils, hydrogenated, from animal or vegetable food sources	
▼ <u>M5</u>	54930	025359-91-5	Formaldehyde-1-naphthol, copolymer [=Poly(1-hydro- xynaphthyl-methane)]	SML = 0,05 mg/kg
▼ <u>M3</u>	55040	000064 10 6		
	55040	000064-18-6	Formic acid	
	55120 55190	000110-17-8	Fumaric acid Gadoleic acid	
	55440	029204-02-2	Gelatin	
▼M4	55110	00,000 10 0	Commit	
	55520	—	Glass fibres	
	55600	_	Glass microballs	
▼ <u>M3</u>	55680	000110-94-1	Glutaric acid	
	55920	000056-81-5	Glycerol	
	56020	099880-64-5	Glycerol dibehenate	
	56360	_	Glycerol, esters with acetic acid	
▼ <u>M4</u>	56486		Glycerol, esters with acids, aliphatic, saturated, linear, with an even number of carbon atoms(C_{14} - C_{18}) and with acids, aliphatic, unsaturated, linear, with an even number of carbon atoms (C_{16} - C_{18})	
▼ <u>M3</u>	56487		Glycerol, esters with butyric	

▼	M3

▼ <u>N13</u>				
	PM/Ref No	CAS No	Name	► <u>M5</u> Restrictions and/or specifications ◄
•	(1)	(2)	(3)	(4)
	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	
	56520		Glycerol, esters with myristic acid	
	56540		Glycerol, esters with oleic acid	
	56550		Glycerol, esters with palmitic acid	
	56565		Glycerol, esters with nona- noic acid	
	56570		Glycerol, esters with propionic acid	
	56580		Glycerol, esters with ricino- leic 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 diace- tate	
	56880	026402-26-6	Glycerol monooctanoate	
	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	
▼ <u>M5</u>	57800	018641-57-1	Glycerol tribehenate	
▼ <u>M3</u>	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	
	59360	000142-62-1	Hexanoic acid	
	59760	019569-21-2	Huntite	
	59990	007647-01-0	Hydrochloric acid	
	60030	012072-90-1	Hydromagnesite	
	60080	012304-65-3	Hydrotalcite	

	PM/Ref No	CAS No	Name	► $\underline{M5}$ Restrictions and/or specifications \blacktriangleleft
-	(1)	(2)	(3)	(4)
	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	
• <u>M6</u>	60480	03864-99-1	2-(2'-Hydroxy-3,5'-di-tert- butylphenyl)-5-chlorobenzo- triazole	$SML(T) = 30 mg/kg (^{19})$
<u>M3</u>	60560	009004-62-0	Hydroxyethylcellulose	
	60880	009032-42-2	Hydroxyethylmethylcellulose	
	61120	009005-27-0	Hydroxyethyl starch	
	61390	037353-59-6	Hydroxymethylcellulose	
	61680	009004-64-2	Hydroxypropylcellulose	
	61800	009049-76-7	Hydroxypropyl starch	
	61840	000106-14-9	12-Hydroxystearic acid	
	62140	006303-21-5	Hypophosphorous acid	
	62240	001332-37-2	Iron oxide	
	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	
	63280	000143-07-7	Lauric acid	
	63760	008002-43-5	Lecithin	
	63840	000123-76-2	Levulinic acid	
	63920	000557-59-5	Lignoceric acid	
	64015	000060-33-3	Linoleic acid	
	64150	028290-79-1	Linolenic acid	
	64500	_	Lysine, salts	
	64640	001309-42-8	Magnesium hydroxide	
	64720	001309-48-4	Magnesium oxide	
<u>M6</u>	64800	00110-16-7	Maleic acid	$SML(T) = 30 mg/kg (^4)$
<u>M3</u>	65020	006915-15-7	Malic acid	
	65040	000913-13-7	Malonic acid	
	65520	000141-82-2	Mannitol	
′ <u>M6</u>	65920	66822-60-4	[N-methacryloyloxyethyl- N,N-dimethyl-N-carboxy- methylammonium chloride, sodium salt-octadecyl methacrylate-ethyl methacry- late-cyclohexyl methacry- late-N-vinyl-2-pyrrolidone,	

▼ <u>M6</u>				
-	PM/Ref No	CAS No	Name	► <u>M5</u> Restrictions and/or specifications ◄
	(1)	(2)	(3)	(4)
▼ <u>M3</u>	66200	037206-01-2	Methylcarboxymethylcellu- lose	
	66240	009004-67-5	Methylcellulose	
▼ <u>M5</u>	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-methylcyclo-hexyl)- phenol]	SML(T) = 3 mg/kg (6)
▼ <u>M3</u>	66640	009004-59-5	Methylethylcellulose	
	66695	_	Methylhydroxymethylcellu- lose	
	66700	009004-65-3	Methylhydroxypropylcellu- lose	
▼ <u>M5</u> ▼ <u>C2</u>	66755	002682-20-4	2-Methyl-4-isothiazolin-3- one	SML = ND (DL = 0.02 mg/kg, analytical tolerance included)
▼ <u>M3</u>	67120	012001-26-2	Mica	
▼M5	0,120	012001 20 2		
_	67170	_	Mixture of (80 to 100 % w/ w) 5,7-di-tert-butyl-3-(3,4- dimethyphenyl)-2(3H)- benzofuranone and (0 to 20 %w/w)5,7-di-tert-butyl-3- (2,3-di-methylphenyl)-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, and (25 % w/w) phthalic acid di- n-decyl ester, and (25 % w/ w) phthalic acid di-n-octyl ester	SML = 5 mg/kg (1)
▼ <u>M3</u>	67200	001317-33-5	Molybdenum disulphide	
	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	
	68040	003333-62-8	7-[2-H-Naphto-(1,2- D)triazol-2-yl]-3-phenylcou- marin	
	68125	► <u>M5</u> 037244-96-5	Nepheline syenite	
▼ <u>M5</u>	68145	080410-33-9	2,2',2"'-Nitrilo[triethyl tris(3,3',5,5'-tetra-tert-butyl- 1,1'-bi-phenyl-2,2'-diyl)pho- sphite]	SML = 5 mg/kg (sum of phosphite and phosphate)
▼ <u>M4</u>	68960	000301-02-0	Oleamide	

▼ <u>M4</u>				
	PM/Ref No	CAS No	Name	► <u>M5</u> Restrictions and/or specifications ◄
	(1)	(2)	(3)	(4)
▼ <u>M3</u>	69040	000112-80-1	Oleic acid	
	69760	000143-28-2	Oleyl alcohol	
	70000	070331-94-1	2,2'-Oxamidobis[ethyl-3- (3,5-di-tert-butyl-4-hydroxy- phenyl)propionate]	
	70240	012198-93-5	Ozokerite	
	70400	000057-10-3	Palmitic acid	
	71020	000373-49-9	Palmitoleic acid	
	71440	009000-69-5	Pectin	
	71600	000115-77-5	Pentaerythritol	
▼ <u>M5</u>	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
▼ <u>M3</u>	71680	006683-19-8	Pentaerythritol tetrakis[3- (3,5-di-tert-butyl-4-hydroxy- phenyl)propionate]	
	71720	000109-66-0	Pentane	
	72640	007664-38-2	Phosphoric acid	
▼ <u>M6</u>	73160	_	Phosphoric acid, mono- and di-n-alkyl (C16 and C18) esters	SML = 0,05 mg/kg
▼M5				
▼ <u>C2</u>	73720	0000115-96-8	Phosphoric acid, trichlor- oethyl ester	SML = ND (DL = 0.02 mg/kg, analytical tolerance included)
▼ <u>M5</u>	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)
▼ <u>M3</u>	74240	031570-04-4	Phosphorous acid, tris(2,4-di- tert-butylphenyl)ester	
	74480	000088-99-3	o-Phthalic acid	
	76320	000085-44-9	Phthalic anhydride	
▼ <u>M5</u>				
	76721	009016-00-6 063148-62-9	Polydimethylsiloxane (MW > 6800)	In compliance with the specifica- tions laid down in Annex V
▼ <u>M6</u>	76730	_	Polydimethylsiloxane, gamma-hydroxypropylated	SML = 6 mg/kg
▼ <u>C2</u>	76865	_	Polyesters of 1,2-propanediol and/or 1,3- and 1,4-butane- diol and/or polypropyleneglycol with adipic acid, also end-capped with acetic acid or fatty acids C10-C18 or n-octanol and/or n-decanol	SML = 30 mg/kg
▼ <u>M3</u>	76960	025322-68-3	Polyethyleneglycol	

▼<u>M4</u>

▼ <u>₩3</u>				
	PM/Ref No	CAS No	Name	► <u>M5</u> Restrictions and/or specifications ◄
-	(1)	(2)	(3)	(4)
-	77600	061788-85-0	Polyethyleneglycol ester of hydrogenated castor oil	
	77702	_	Polyethyleneglycol esters of aliphatic monocarboxylic acids (C_6-C_{22}) , and their ammonium and sodium sulphates	
• <u>M5</u>	77895	068439-49-6	Polyethyleneglycol(EO = 2- 6) monoalkyl(C16-C18) ether	SML = 0,05 mg/kg
▼ <u>M3</u>	79040	009005-64-5	Polyethyleneglycol sorbitan monolaureate	
	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	
	80240	029894-35-7	Polyglycerol ricinoleate	
	80640		Polyoxyalkyl(C_2 - C_4)dimethylpolysiloxane	
	80720	008017-16-1	Polyphosphoric acids	
<u>M4</u>	80800	025322-69-4	Polypropyleneglycol	
▼ <u>M6</u>	81220	192268-64-7	Poly-[[6-[N-(2,2,6,6-tetra- methyl-4-piperidinyl)-n- butylamino]-1,3,5-triazine- 2,4-diyl][2,2,6,6-tetramethyl- 4-piperidinyl)imino]-1,6- hexanediyl[2,2,6,6-tetra- methyl-4-piperidinyl)i- mino]]-alpha-[N,N,N',N'- tetrabutyl-N''''-(2,2,6,6-tetra- methyl-4-piperidinylamino)- hexyl][1,3,5-triazine-2,4,6- triamine]-omega-N,N,N',N'- tetrabutyl-1,3,5-triazine-2,4- diamine]	SML = 5 mg/kg
<u>M5</u>	81515	087189-25-1	Poly(zinc glycerolate)	
<u>M3</u>	81520	007758-02-3	Potassium bromide	
	81600	001310-58-3	Potassium hydroxide	
7 <u>M5</u>	81760	_	Powders, flakes and fibres of brass, bronze, copper, stain- less steel, tin and alloys of copper, tin and iron	SML(T) = 30 mg/kg (7) (expressed as copper); SML = 48 mg/kg (expressed as iron)
M <u>3</u>	81840	000057-55-6	1,2-Propanediol	
	81840	000067-63-0	2-Propanol	
	82000	00007-03-0	Propionic acid	
	82000	009005-37-2	1,2-Propyleneglycol alginate	

	PM/Ref No	CAS No	Name	► <u>M5</u> Restrictions and/or specifications ◄
-	(1)	(2)	(3)	(4)
-	82240	022788-19-8	1,2-Propyleneglycol dilaurate	
	82400	000105-62-4	1,2-Propyleneglycol dioleate	
	82560	033587-20-1	1,2-Propyleneglycol dipalmi- tate	
	82720	006182-11-2	1,2-Propyleneglycol distea- rate	
	82800	027194-74-7	1,2-Propyleneglycol mono- laurate	
	82960	001330-80-9	1,2-Propyleneglycol mono- oleate	
	83120	029013-28-3	1,2-Propyleneglycol mono- palmitate	
	83300	001323-39-3	1,2-Propyleneglycol mono- stearate	
	83320	_	Propylhydroxyethylcellulose	
	83325		Propylhydroxymethylcellu- lose	
	83330		Propylhydroxypropylcellu- lose	
	83440	002466-09-3	Pyrophosphoric acid	
	83455	013445-56-2	Pyrophosphorous acid	
	83460	012269-78-2	Pyrophyllite	
	83470	014808-60-7	Quartz	
<u>M6</u>	83599	68442-12-6	Reaction products of oleic acid, 2-mercaptoethyl ester, with dichlorodimethyltin, sodium sulphide and trichloromethyltin	SML(T) = 0,18 mg/kg (¹⁶) (expressed as tin)
<u>M3</u>	83610	073138-82-6	Resin acids and rosin acids	
	83840	008050-09-7	Rosin	
	84000	008050-31-5	Rosin, ester with glycerol	
	84080	008050-26-8	Rosin, ester with pentaery- thritol	
	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	
<u>M5</u>	85360	000109-43-3	Sebacic acid, dibutyl ester	
<u>M3</u>	85600	_	Silicates, natural	
<u>M5</u>	85610		Silicates, natural, silanated (with the exception of asbestos)	
<u>M6</u>	85680	01343-98-2	Silicic acid	

▼]	M6
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▼ <u>IV10</u>	PM/Ref No	CAS No	Name	► <u>M5</u> Restrictions and/or specifications ◄
	(1)	(2)	(3)	(4)
	85840	53320-86-8	Silicic acid, lithium magne- sium sodium salt	SML(T) = 0,6 mg/kg (⁸) (expressed as lithium)
▼ <u>M3</u>	86000	_	Silicic acid, silylated	
	86160	000409-21-2	Silicon carbide	
	86240	007631-86-9	Silicon dioxide	
▼ <u>M5</u>	86285		Silicon dioxide, silanated	
▼ <u>M3</u>	96560	007647 15 6	Sodium bromide	
	86560	007647-15-6		
	86720	001310-73-2	Sodium hydroxide Sorbic acid	
	87200	000110-44-1		
	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	
▼ <u>M5</u>	88640	008013-07-8	Soybean oil, epoxidised	In compliance with the specifica- tins laid down in Annex V
▼ <u>M3</u>	88800	009005-25-8	Starch, edible	
	88880	009003-23-8	•	
▼M4	06666	008412-29-3	Starch, hydrolysed	
▼ <u>M4</u> ▼M3	88960	000124-26-5	Stearamide	
	89040	000057-11-4	Stearic acid	
▼ <u>M5</u>	89200	007617-31-4	Stearic acid, copper salt	SML(T) = 30 mg/kg (7) (expresed as copper)
	89440	_	Stearic acid, esters with ethyleneglycol	SML(T) = 30 mg/kg (3)
▼ <u>M3</u>	90720	058446-52-9	Stearoylbenzoylmethane	
	90720	005793-94-2	Stearoyl-2-lactylic acid,	
	20000	005/95-94-2	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	

	PM/Ref No	CAS No	Name	► <u>M5</u> Restrictions and/or specifications ◄
	(1)	(2)	(3)	(4)
▼ <u>M5</u>	92030	010124-44-4	Sulphuric acid, copper salt	SML(T) = 30 mg/kg (7) (expressed as copper)
▼ <u>M3</u>	92080	014807-96-6	Talc	
▼ <u>M6</u>	92150	01401-55-4	Tannic acids	According to the JECFA specifi- cations
▼ <u>M3</u>	021(0	000087 (0.4	Tradevice sold	
	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)	
	92350	000112-60-7	Tetraethyleneglycol	
	92640	000102-60-3	N,N,N',N'-Tetrakis(2-hydro- xypropyl)ethylenediamine	
▼ <u>M5</u>	92700	078301-43-6	2,2,4,4-Tetramethyl-20-(2,3- epoxypropyl)-7-oxa-3,20- diazadispiro[5.1.11.2]-henei- cosan-21-one, polymer	SML = 5 mg/kg
	92930	120218-34-0	Thiodiethanolbis(5-methoxy- carbonyl-2,6-dimethyl-1,4- dihydropyri- dine-3-carboxy- late)	SML = 6 mg/kg
▼ <u>M3</u>	02440	0124(2)(7.7	Tite views disside	
	93440	013463-67-7	Titanium dioxide	
	93520	000059-02-9	alpha-Tocopherol	
	93680	010191-41-0	Tuo ao aontin' aver	
V M6	93080	009000-03-1	Tragacanth gum	
▼ <u>M6</u>	93720	00108-78-1	2,4,6-Triamino-1,3,5-triazine	SML = 30 mg/kg
▼ <u>M3</u>	94320	000112-27-6	Triethyleneglycol	
$\underbrace{M5}{C2}$	94960	000077-99-6	1,1,1-Trimethylolpropane	SML = 6 mg/kg
▼ <u>M3</u>	95200	001709-70-2	1,3,5-Trimethyl-2,4,6- tris(3,5-di-tert-butyl-4-hydro- xybenzyl)benzene	
▼ <u>M6</u>	95270	161717-32-4	2,4,6-Tris(tert-butyl)phenyl 2-butyl-2-ethyl-1,3-propane- diol phosphate	SML = 2 mg/kg (as sum of phosphite, phosphate and the hydrolysis product = TTBP)
	95725	110638-71-6	Vermiculite, reaction product with citric acid, lithium salt	SML(T) = 0,6 mg/kg (⁸) (expressed as lithium)
▼ <u>M5</u>	95855	007732-18-5	Water	In compliance with Directive 98/ 83/EC
	95859	_	Waxes, refined, derived from petroleum based or synthetic hydrocarbon feedstocks	In compliance with the specifica- tions laid down in Annex V
	95883	_	White mineral oils, paraf- finic, derived from petroleum based hydrocarbon feed-	In compliance with the specifica- tions laid down in Annex V

▼ <u>M5</u>				
	PM/Ref No	CAS No	Name	► <u>M5</u> Restrictions and/or specifications ◄
	(1)	(2)	(3)	(4)
▼M3				
	95905	013983-17-0	Wollastonite	
	95920	—	Wood flour and fibres, untreated	
	95935	011138-66-2	Xanthan gum	
	96190	020427-58-1	Zinc hydroxide	
	96240	001314-13-2	Zinc oxide	
	96320	001314-98-3	Zinc sulphide	

▼<u>M6</u>

SECTION B

Incomplete list of additives referred to in Article 3a, second paragraph

Ref. No	CAS No	Name	Restrictions and/or specifications
30180	02180-18-9	Acetic acid, manganese salt	SML(T) = 0,6 mg/kg (¹⁰) (expressed as manganese)
31520	61167-58-6	Acrylic acid, 2-tert-butyl-6- (3-tert-butyl-2-hydroxy-5- methylbenzyl)-4-methyl- phenyl ester	SML = 6 mg/kg
31920	00103-23-1	Adipic acid, bis(2-ethyl- hexyl) ester	$SML = 18 mg/kg (^{1})$
34230	_	Alkyl(C8-C22)sulphonic acids	SML = 6 mg/kg
35760	01309-64-4	Antimony trioxide	SML = 0,02 mg/kg (expressed a antimonium and analytical toler- ance included)
36720	17194-00-2	Barium hydroxide	$SML(T) = 1 mg/kg (^{12}) (express as barium)$
36800	10022-31-8	Barium nitrate	$SML(T) = 1 mg/kg (^{12}) (express as barium)$
38240	00119-61-9	Benzophenone	SML = 0.6 mg/kg
38560	07128-64-5	2,5-Bis(5-tert-butyl-2- benzoxazolyl)thiophene	SML = 0.6 mg/kg
38700	63397-60-4	Bis(2-carbobutoxyethyl)tin- bis(isooctyl mercaptoacetate)	SML = 18 mg/kg
38800	32687-78-8	N,N'-Bis(3-(3,5-di-tert-butyl- 4-hydroxyphenyl)propionyl)- hydrazide	SML = 15 mg/kg
38820	26741-53-7	Bis(2,4-di-tert-butylphenyl) pentaerythritol diphosphite	SML = 0.6 mg/kg
39060	35958-30-6	1,1-Bis(2-hydroxy-3,5-di- tert-butylphenyl)ethane	SML = 5 mg/kg
39090	_	N,N-Bis(2-hydroxyethy- l)alkyl(C8-C18)amine	$SML(T) = 1,2 mg/kg (^{13})$
39120	_	N,N-bis(2-hydroxyethy- l)alkyl(C8-C18)amine hydro- chlorides	SML(T) = 1,2 mg/kg (¹³) (expressed as N,N-bis(2-hydro- xyethyl)alkyl(C8-C18)amine)
40000	00991-84-4	2,4-Bis(octylmercapto)-6-(4- hydroxy-3,5-di-tert-butylani- lino)-1,3,5-triazine	SML = 30 mg/kg
40020	110553-27-0	2,4-Bis(octylthiomethyl)-6- methylphenol	SML = 6 mg/kg

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Ref. No	CAS No	Name	Restrictions and/or specifications
40160	61269-61-2	N,N'-bis(2,2,6,6-tetramethyl- 4-piperidyl)hexamethylene- diamine-1,2-dibromoethane, copolymer	SML = 2,4 mg/kg
40800	13003-12-8	4,4'-Butylidene-bis(6-tert- butyl-3-methylphenyl-ditri- decyl phosphite)	SML = 6 mg/kg
40980	19664-95-0	Butyric acid, manganese salt	$SML(T) = 0.6 mg/kg (^{10})$ (expressed as manganese)
42000	63438-80-2	(2-Carbobutoxyethyl)tin- tris(isooctyl mercaptoacetate)	SML = 30 mg/kg
42400	10377-37-4	Carbonic acid, lithium salt	SML(T) = 0,6 mg/kg (⁸) (expressed as lithium)
42480	00584-09-8	Carbonic acid, rubidium salt	SML = 12 mg/kg
43600	04080-31-3	1-(3-Chloroallyl)-3,5,7- triaza-1-azoniaadamantane chloride	SML = 0.3 mg/kg
43680	00075-45-6	Chlorodifluoromethane	SML = 6 mg/kg and in compliance with the specifications laid down in Annex V
44960	11104-61-3	Cobalt oxide	$SML(T) = 0.05 \text{ mg/kg} (^{14})$ (expressed as cobalt)
45440	—	Cresols, butylated, styrenated	SML = 12 mg/kg
46720	04130-42-1	2,6-Di-tert-butyl-4-ethyl- phenol	$QMA = 4.8 mg/6 dm^2$
47600	84030-61-5	Di-n-dodecyltin bis(isooctyl mercaptoacetate)	SML = 12 mg/kg
48640	00131-56-6	2,4-Dihydroxybenzophenone	$SML(T) = 6 mg/kg (^{15})$
48800	00097-23-4	2,2'-Dihydroxy-5,5'-dichlor- odiphenylmethane	SML = 12 mg/kg
48880	00131-53-3	2,2'-Dihydroxy-4-methoxy- benzophenone	$SML(T) = 6 mg/kg (^{15})$
49600	26636-01-1	Dimethyltin bis(isooctyl mercaptoacetate)	$SML(T) = 0.18 \text{ mg/kg} (^{16})$ (expressed as tin)
49840	02500-88-1	Dioctadecyl disulphide	SML = 3 mg/kg
50160	_	Di-n-octyltin bis(n- alkyl(C10-C16) mercapto acetate)	$SML(T) = 0.04 \text{ mg/kg} (^{17})$ (expressed as tin)
50240	10039-33-5	Di-n-octyltin bis(2-ethyl- hexyl maleate)	$SML(T) = 0.04 \text{ mg/kg} (^{17})$ (expressed as tin)
50320	15571-58-1	Di-n-octyltin bis(2-ethyl- hexyl mercaptoacetate)	$SML(T) = 0,04 \text{ mg/kg} (^{17})$ (expressed as tin)
50360	—	Di-n-octyltin bis(ethyl maleate)	$SML(T) = 0.04 \text{ mg/kg} (^{17})$ (expressed as tin)
50400	33568-99-9	Di-n-octyltin bis(isooctyl maleate)	$SML(T) = 0.04 \text{ mg/kg} (^{17})$ (expressed as tin)
50480	26401-97-8	Di-n-octyltin bis(isooctyl mercaptoacetate)	$SML(T) = 0.04 \text{ mg/kg} (^{17})$ (expressed as tin)
50560	—	Di-n-octyltin 1,4-butanediol bis(mercaptoacetate)	$SML(T) = 0.04 \text{ mg/kg} (^{17})$ (expressed as tin)
50640	03648-18-8	Di-n-octyltin dilaurate	$SML(T) = 0.04 \text{ mg/kg} (^{17})$ (expressed as tin)
50720	15571-60-5	Di-n-octyltin dimaleate	$SML(T) = 0.04 \text{ mg/kg} (^{17})$ (expressed as tin)
50800	_	Di-n-octylin dimaleate, esterified	$SML(T) = 0.04 \text{ mg/kg } (^{17})$ (expressed as tin)
50880		Di-n-octyltin dimaleate, polymers ($n = 2-4$)	$SML(T) = 0.04 \text{ mg/kg} (^{17})$ (expressed as tin)

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	Ref. No	CAS No	Name	Restrictions and/or specifications
	50960	69226-44-4	Di-n-octyltin ethyleneglycol bis(mercaptoacetate)	$SML(T) = 0.04 \text{ mg/kg} (^{17})$ (expressed as tin)
	51040	15535-79-2	Di-n-octyltin mercaptoace- tate	SML(T) = 0,04 mg/kg (17) (expressed as tin)
	51120	—	Di-n-octyltin thiobenzoate 2- ethylhexyl mercaptoacetate	$SML(T) = 0.04 \text{ mg/kg} (^{17})$ (expressed as tin)
	51570	00127-63-9	Diphenyl sulphone	SML = 3 mg/kg
	51680	00102-08-9	N,N'-diphenylthiourea	SML = 3 mg/kg
	52000	27176-87-0	Dodecylbenzenesulphonic acid	SML = 30 mg/kg
	52320	52047-59-3	2-(4-Dodecylphenyl)indole	SML = 0.06 mg/kg
	52880	23676-09-7	4-Ethoxybenzoic acid, ethyl ester	SML = 3.6 mg/kg
	53200	23949-66-8	2-Ethoxy-2'-ethyloxanilide	SML = 30 mg/kg
	58960	00057-09-0	Hexadecyltrimethylammo- nium bromide	SML = 6 mg/kg
	59120	23128-74-7	1,6-Hexamethylene-bis(3- (3,5-di-tert-butyl-4-hydroxy- phenyl)propionamide)	SML = 45 mg/kg
	59200	35074-77-2	1,6-Hexamethylene-bis(3- (3,5-di-tert-butyl-4-hydroxy- phenyl)propionate)	SML = 6 mg/kg
	60320	70321-86-7	2-(2-Hydroxy-3,5-bis(1,1- dimethylbenzyl)phenyl)ben- zotriazole	SML = 1,5 mg/kg
	60400	03896-11-5	2-(2'-Hydroxy-3'-tert-butyl- 5'-methylphenyl)-5-chloro- benzotriazole	$SML(T) = 30 mg/kg (^{19})$
	60800	65447-77-0	1-(2-Hydroxyethyl)-4- hydroxy-2,2,6,6-tetramethyl piperidine-succinic acid, dimethyl ester, copolymer	SML = 30 mg/kg
	61280	03293-97-8	2-Hydroxy-4-n-hexyloxyben- zophenone	$SML(T) = 6 mg/kg (^{15})$
	61360	00131-57-7	2-Hydroxy-4-methoxybenzo- phenone	$SML(T) = 6 mg/kg (^{15})$
	61440	02440-22-4	2-(2-Hydroxy-5-methylphe- nyl)benzotriazole	$SML(T) = 30 mg/kg (^{19})$
	61600	01843-05-6	2-Hydroxy-4-n-octyloxyben- zophenone	$SML(T) = 6 mg/kg (^{15})$
	63200	51877-53-3	Lactic acid, manganese salt	$SML(T) = 0.6 \text{ mg/kg} (^{10})$ (expressed as manganese)
	64320	10377-51-2	Lithium iodide	$SML(T) = 1 mg/kg (^{11}) (expressedas iodium) and SML(T) = 0.6 mg/kg (^8) (expressed as lithium)$
	65120	07773-01-5	Manganese chloride	$SML(T) = 0,6 mg/kg (^{10})$ (expressed as manganese)
	65200	12626-88-9	Manganese hydroxide	$SML(T) = 0.6 \text{ mg/kg} (^{10})$ (expressed as manganese)
	65280	10043-84-2	Manganese hypophosphite	$SML(T) = 0.6 \text{ mg/kg} (^{10})$ (expressed as manganese)
	65360	11129-60-5	Manganese oxide	$SML(T) = 0.6 \text{ mg/kg} (^{10})$ (expressed as manganese)
	65440	_	Manganese pyrophosphite	SML(T) = 0,6 mg/kg (¹⁰) (expressed as manganese)
	66360	85209-91-2	2-2'-Methylene bis(4,6-di- tert-butylphenyl)sodium phosphate	SML = 5 mg/kg
	66400	00088-24-4	2,2'-Methylenebis(4-ethyl-6- tert-butylphenol)	$SML(T) = 1,5 mg/kg (^{20})$

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as neodecanoic acid) and SML(T) = 0.05 mg/kg (*) (expressed as cobal1). Not fr in polymers contacting food which simulant D is laid do Directive 85/572/EEC6832002082-79-3Octadecyl 3-(3,5-di-tert- butyl-4-hydroxylphenyl)pro- pionateSML = 6 mg/kg6840010094-45-8OctadecylerucamideSML = 5 mg/kg6840016260-09-6OleylpalmitamideSML = 5 mg/kg7216000948-65-22-PhenylindoleSML = 15 mg/kg7280001241-94-7Phosphoric acid, diphenyl 2- ethylhcxyl esterSML = 2,4 mg/kg7304013763-32-1Phosphoric acid, lithium saltsSML(T) = 0,6 mg/kg (*) (exp as lithium)7312010124-54-6Phosphoric acid, manganese saltSML(T) = 0,6 mg/kg (*) (exp as lithium)77440—Polyethyleneglycol dirici- noleateSML = 30 mg/kg7752061791-12-6Polyethyleneglycol dirici- noleateSML = 42 mg/kg7752061791-12-6Polyethyleneglycol monori- cinoleateSML = 42 mg/kg8120071878-19-8Poly[6-[(1,1,3,3-tertamethyl- butylphanio]-1,3,5-triazine- 2,4-diy][(2,2,6,6-terta- methyl-4-piperidyl)imino]SML = 3 mg/kg8202019019-51-3Propionic acid, cobalt saltSML(T) = 1 mg/kg (4) (expressed as cobalt)83595119345-01-6Reaction product of di-tert- butylphenol with firedel craft reaction product of phos- phorus tichloride and biphenyl, obtained by condensation of 2,4-di-tert- butylphenol with firedel craft reaction product of phos- phorus tichloride and biphenylSML = 42 mg/kg	Ref. No	CAS No	Name	Restrictions and/or specifications
socetyl mercaptoacetate)Socetyl mercaptoacetate)6752054849-38-6Monomethylin tris(socetyl mercaptoacetate)SML(T) = 0,18 mg/kg (") (expressed as tin)67600—Mono-n-octylin tris(alkyl(C10-C16)mcrap- toacetate)SML(T) = 1,2 mg/kg (") (expressed as tin)6768027107-89-7Mono-n-octylin tris(2-ethyl- hexyl mercaptoacetate)SML(T) = 1,2 mg/kg (") (expressed as tin)6776026401-86-5Mono-n-octylin tris(3coetyl- mercaptoacetate)SML(T) = 0,05 mg/kg (expr (expressed as cobalt). Not fi polymers contacting food which simulant D is laid do bityl-4-hydrosylphenyl)pro- pionateSML = 5 mg/kg6832002082-79-3Octadecyl 3-(3,5-di-tert- butyl-4-hydrosylphenyl)pro- pionateSML = 5 mg/kg6840010094-45-8OctadecylerucamideSML = 5 mg/kg7216000948-65-22-PhenylindoleSML = 15 mg/kg7312010124-54-6Phosphoric acid, diphenyl 2- ethylhexyl esterSML(T) = 0,6 mg/kg (") (expr salthor dimonylphenyl) ester7752061791-12-6Phosphoric acid, manganese saltSML(T) = 0,6 mg/kg (") (exp salthor dimonylphenyl) ester7752061791-12-6Polyethyleneglycol dirici- noleateSML = 42 mg/kg7812071878-19-8Poly[-{[(1,1,3,3-terramethyl- butyl-hepicrdyl)mino] hexanethylene(12,2,6,6-terra- methyl-4-pierdyl)mino]SML = 1 mg/kg (") (exp as icidium)783200904-97-1Polyethyleneglycol ester of castor oilSML = 2 mg/kg8168007681-11-0Potasium iodideSML = 1 mg/kg (") (exp <br< td=""><td>66480</td><td>00119-47-1</td><td></td><td>$SML(T) = 1,5 mg/kg (^{20})$</td></br<>	66480	00119-47-1		$SML(T) = 1,5 mg/kg (^{20})$
67600mercaptoacetate)(expressed as tin)67600Mono-n-octylin tris(alkyl(CloC16)mercap- toacetate)SML(T) = 1,2 mg/kg (") (expressed as tin)6768027107-89-7Mono-n-octylin tris(isooctyl mercaptoacetate)SML(T) = 1,2 mg/kg (") (expressed as tin)6776026401-86-5Mono-n-octylin tris(isooctyl mercaptoacetate)SML(T) = 1,2 mg/kg (") (expressed as tin)6807827253-31-2Neodecanoic acid, cobalt saltSML(T) = 0,05 mg/kg (cvp (expressed as cobalt). Not fi in polymers contacting food whch simulant D is larged Directive 85/572/EEC6832002082-79-3Octadecyl 3-(3,5-di-tert- butyl-4-hydroxylphenyl)pro- pionateSML = 5 mg/kg6840010094-45-8Octadecyl a-(3,5-di-tert- butyl-4-hydroxylphenyl)pro- pionateSML = 5 mg/kg7280001241-94-7Phosphoric acid, diphenyl 2- ethylhexyl esterSML = 15 mg/kg7304013763-32-1Phosphoric acid, lithium salts saltSML(T) = 0,6 mg/kg (*) (expressed as maganese)74400Phosphoric acid, maganese saltSML = 3 mg/kg7752061791-12-6Polyethyleneglycol dirici- noleateSML = 42 mg/kg7832009004-97-1Polyethyleneglycol dirici- methyl-4-pieridyl)imino]- hexamethylene(1,2,6,6-tetra- methyl-4-pieridyl)imino]- hexamethylene(1,2,2,6-tetra- methyl-4-pieridyl)imino]- hexamethylene(1,2,2,6-tetra- methyl-4-pieridyl)imino]- hexamethylene(1,2,2,6-tetra- methyl-4-pieridyl)imino]- hexamethylene(1,2,2,6-tetra- methyl-4-pieridyl)imino]- hexamethylene(1,2,2,6-tetra- methyl-4-pieridyl)imino]- hexamethyl	67360	67649-65-4		
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hexyl mercaptoacetate)(expressed as tin)6776026401-86-5Mono-n-octyltin tris(isooctyl mercaptoacetate) $SML(T) = 1.2$ mg/kg (") (expressed as tin)6807827253-31-2Neodecanoic acid, cobalt salt $SML(T) = 0.05$ mg/kg (expr as neodecanoic acid) and SML(T) = 0.05 mg/kg (expr as neodecanoic acid) and SML(T) = 0.05 mg/kg (mg/kg (")) (expressed as cobalt), Not fi in polymers contacting food which simulant D is laid do Directive 83/572/EEC6832002082-79-3Octadecyl 3-(3,5-di-tert- butyl-4-hydroxylphenyl)pro- pionateSML = 5 mg/kg6840010094-45-8OctadecylerucamideSML = 5 mg/kg7216000948-65-22-PhenylindoleSML = 15 mg/kg7216001241-94-7Phosphoric acid, diphenyl 2- ethylhaxyl esterSML = 12, mg/kg (") (expr asalt7312010124-54-6Phosphoric acid, lithium salts and/or dimonylphenyl) esterSML = 30 mg/kg77440Polyethyleneglycol dirici- noleateSML = 42 mg/kg7752061791-12-6Polyethyleneglycol ester of castor oilSML = 42 mg/kg7832009004-97-1Polyethyleneglycol monori- cinoleateSML = 42 mg/kg8168007681-11-0Potasium iodideSML (T) = 1 mg/kg (") (expr essed as a indium)8202019019-51-3Propionic acid, cobalt saltSML (T) = 1 mg/kg (") (exp essed as cobalt)83595119345-01-6Reaction product of di-tert- butylphenoh with field el craft reaction product of phos- phorus triberide and biphenyl, obtained by condensation of 2,4-di-tert- butylphophowith with biphenyl,	67600		tris(alkyl(C10-C16)mercap-	
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as neodecanoic acid) and SML(T) = 0,05 mg/kg (*) (expressed as cobal). Not f in polymers contacting food which simulant D is laid do Directive 85/572/EEC6832002082-79-3Octadecyl 3-(3,5-di-tert- butyl-4-hydroxylphenyl)pro- pionateSML = 6 mg/kg6840010094-45-8OctadecylerucamideSML = 5 mg/kg6840016260-09-6OleylpalmitamideSML = 5 mg/kg7216000948-65-22-PhenylindoleSML = 15 mg/kg7280001241-94-7Phosphoric acid, diphenyl 2- ethylhexyl esterSML = 2,4 mg/kg7304013763-32-1Phosphoric acid, manganese saltSML(T) = 0,6 mg/kg (*) (exp as lithium)7312010124-54-6Phosphoric acid, manganese saltSML(T) = 0,6 mg/kg (*) (exp as lithium)74400—Phosphorous acid, tris(nonyl- and/or dimonylphenyl) esterSML = 30 mg/kg7752061791-12-6Polyethyleneglycol dirici- noleateSML = 42 mg/kg7832009004-97-1Polyethyleneglycol monori- cinoleateSML = 42 mg/kg8120071878-19-8Poly[6-[(1,1,3,3-tertramethyl- hylich[(2,2,6,6-terta- methyl-4-piperidyl)mino]SML = 3 mg/kg8168007681-11-0Potassium iodidSML(T) = 1 mg/kg (4) (exp as iodium)83595119345-01-6Reaction product of di-tert- butylphenol with friedel craft reaction product of di-tert- butylphosphorine with friedel craft reaction product of di-	67760	26401-86-5		
11111111111111111111111111116840010094-45-8OctadecylerucamideSML = 5 mg/kg6840016260-09-6OleylpalmitamideSML = 5 mg/kg7216000948-65-22-PhenylindoleSML = 15 mg/kg7280001241-94-7Phosphoric acid, diphenyl 2- ethylhexyl esterSML = 2,4 mg/kg7304013763-32-1Phosphoric acid, lithium saltsSML(T) = 0,6 mg/kg (*) (exp as lithium)7312010124-54-6Phosphoric acid, tris(nonyl- and/or dimonylphenyl) esterSML = 30 mg/kg74400Phosphorous acid, tris(nonyl- and/or dimonylphenyl) esterSML = 42 mg/kg7752061791-12-6Polyethyleneglycol dirici- noleateSML = 42 mg/kg7832009004-97-1Polyethyleneglycol monori- cinoleateSML = 42 mg/kg8120071878-19-8Poly[6-[(1,1,3,3-tetramethyl- butyl]/10]/1,3,5-triazine- 2,4-diyl][(2,2,6,6-tetra- methyl-4-piperidyl)imino]- hexamethylene[(2,2,6,6-tetra- methyl-4-piperidyl)imino]SML = 3 mg/kg8168007681-11-0Potassium iodideSML(T) = 1 mg/kg (¹¹) (exp as iodium)8202019019-51-3Propionic acid, cobalt saltSML = 18 mg/kg and in co ance with the specifications mentioned in Annex V83595119345-01-6Reaction product of di-tert- butylphosphonite with biphenylSML = 12 mg/kg8370000141-22-0Ricinoleic acidSML = 42 mg/kg	68078	27253-31-2	Neodecanoic acid, cobalt salt	$SML(T) = 0.05 \text{ mg/kg} (^{14})$ (expressed as cobalt). Not for use in polymers contacting foods for which simulant D is laid down in
6984016260-09-6OleylpalmitamideSML = 5 mg/kg7216000948-65-22-PhenylindoleSML = 15 mg/kg7280001241-94-7Phosphoric acid, diphenyl 2- ethylhexyl esterSML = 2,4 mg/kg7304013763-32-1Phosphoric acid, lithium saltsSML(T) = 0,6 mg/kg (*) (exp as lithium)7312010124-54-6Phosphoric acid, manganese saltSML(T) = 0,6 mg/kg (*) (exp as lithium)7312010124-54-6Phosphoric acid, tris(nonyl- and/or dimonylphenyl) esterSML = 30 mg/kg74400Polyethyleneglycol dirici- noleateSML = 42 mg/kg7752061791-12-6Polyethyleneglycol ester of castor oilSML = 42 mg/kg7832009004-97-1Polyethyleneglycol monori- cinoleateSML = 42 mg/kg8120071878-19-8Poly[6-[(1,1,3,3-tetramethyl- butylamino]-1,3,5-triazine- 	68320	02082-79-3	butyl-4-hydroxylphenyl)pro-	SML = 6 mg/kg
7216000948-65-22-PhenylindoleSML = 15 mg/kg7280001241-94-7Phosphoric acid, diphenyl 2- ethylhexyl esterSML = 2,4 mg/kg7304013763-32-1Phosphoric acid, lithium saltsSML(T) = 0,6 mg/kg (*) (exp as lithium)7312010124-54-6Phosphoric acid, manganese saltSML(T) = 0,6 mg/kg (*) (exp as lithium)74400Phosphorous acid, tris(nonyl- and/or dimonylphenyl) esterSML = 30 mg/kg77440Polyethyleneglycol dirici- noleateSML = 42 mg/kg7752061791-12-6Polyethyleneglycol ester of castor oilSML = 42 mg/kg7832009004-97-1Polyethyleneglycol monori- cinoleateSML = 42 mg/kg8120071878-19-8Poly[6-[(1,1,3,3-tetramethyl- butyl]amino]-1,3,5-triazine- 2,4-di/yl](2,2,6-tetra- methyl-4-piperidyl)imino]SML = 3 mg/kg8168007681-11-0Potassium iodideSML(T) = 1 mg/kg (¹) (exp as iodium)8202019019-51-3Propionic acid, cobalt saltSML(T) = 0,05 mg/kg (¹) (expressed as cobalt)83595119345-01-6Reaction product of di-tert- butylphosphonit with biphenyl, obtained by condensation of 2,4-di-tert- butylphosphonit with biphenyl phenyl with friedel craft reaction product of phos- phorus trichloride and biphenylSML = 42 mg/kg8370000141-22-0Ricinoleic acidSML = 42 mg/kg	68400	10094-45-8	Octadecylerucamide	SML = 5 mg/kg
7280001241-94-7Phosphoric acid, diphenyl 2- ethylhexyl esterSML = 2,4 mg/kg7304013763-32-1Phosphoric acid, lithium saltsSML(T) = 0,6 mg/kg (10) (expressed as manganese salt7312010124-54-6Phosphoric acid, manganese saltSML(T) = 0,6 mg/kg (10) (expressed as manganese)74400Phosphoric acid, tris(nonyl- and/or dimonylphenyl) esterSML = 30 mg/kg77440Polyethyleneglycol dirici- noleateSML = 42 mg/kg7752061791-12-6Polyethyleneglycol ester of castor oilSML = 42 mg/kg7832009004-97-1Polyethyleneglycol monori- cinoleateSML = 42 mg/kg8120071878-19-8Poly[6-[(1,1,3,3-tetramethyl- butyl)amino]-1,3,5-triazine- 2,4-diyl][(2,2,6,6-tetra- methyl-4-piperidyl)imino]SML(T) = 1 mg/kg (11) (expressed as cobalt)8168007681-11-0Potassium iodideSML(T) = 1 mg/kg (11) (expressed as cobalt)8202019019-51-3Propionic acid, cobalt saltSML(T) = 0.05 mg/kg (41) (expressed as cobalt)83595119345-01-6Reaction product of di-tert- butylphosphonite with biphenyl, obtained by condensation of 2,4-di-tert- butylphosphonic with biphenylSML = 18 mg/kg and in col ance with the specifications mentioned in Annex V8370000141-22-0Ricinoleic acidSML = 42 mg/kg	69840	16260-09-6	Oleylpalmitamide	SML = 5 mg/kg
ethylhexyl esterethylhexyl ester 1.1 C C7304013763-32-1Phosphoric acid, lithium saltsSML(T) = 0,6 mg/kg (*) (exp as lithium)7312010124-54-6Phosphoric acid, manganese saltSML(T) = 0,6 mg/kg (*) (exp as lithium)7312010124-54-6Phosphorous acid, tris(nonyl- and/or dimonylphenyl) esterSML = 30 mg/kg74400—Phosphorous acid, tris(nonyl- and/or dimonylphenyl) esterSML = 42 mg/kg7752061791-12-6Polyethyleneglycol dirici- noleateSML = 42 mg/kg7832009004-97-1Polyethyleneglycol monori- cinoleateSML = 42 mg/kg8120071878-19-8Poly[6-[(1,1,3,3-tetramethyl- butyl)amino]-1,3,5-triazine- 2,4-diyl]((2,2,6,6-tetra- methyl-4-piperidyl)imino] hexamethylene[(2,2,6,6-tetra- methyl-4-piperidyl)imino]SML = 3 mg/kg8168007681-11-0Potassium iodideSML(T) = 1 mg/kg (1) (exp as iodium)8202019019-51-3Propionic acid, cobalt saltSML(T) = 0,05 mg/kg (4) (expressed as cobalt)83595119345-01-6Reaction product of di-tert- butylphosphonite with biphenyl, obtained by condensation of 2,4-di-tert- butylphosphonite with reaction product of phos- phorus trichloride and biphenylSML = 42 mg/kg8370000141-22-0Ricinoleic acidSML = 42 mg/kg	72160	00948-65-2	2-Phenylindole	SML = 15 mg/kg
7312010124-54-6Phosphoric acid, manganese saltas lithium)7312010124-54-6Phosphoric acid, manganese saltSML (T) = 0,6 mg/kg (10) (expressed as manganese)74400Phosphorous acid, tris(nonyl- and/or dimonylphenyl) esterSML = 30 mg/kg77440Polyethyleneglycol dirici- noleateSML = 42 mg/kg7752061791-12-6Polyethyleneglycol ester of castor oilSML = 42 mg/kg7832009004-97-1Polyethyleneglycol monori- cinoleateSML = 42 mg/kg8120071878-19-8Poly[6-[(1,1,3,3-tetramethyl- butylamino]-1,3,5-triazine- 2,4-diyl][(2,2,6,6-tetra- methyl-4-piperidyl)imino] hexamethylene[(2,2,6,6-tetra- methyl-4-piperidyl)imino]SML = 3 mg/kg8168007681-11-0Potassium iodideSML(T) = 1 mg/kg (11) (exp as iodium)8202019019-51-3Propionic acid, cobalt saltSML(T) = 0,05 mg/kg (4) (expressed as cobalt)83595119345-01-6Reaction product of di-tert- butylphosphonite with biphenyl, obtained by condensation of 2,4-di-tert- butylphosphonite with biphenyl, obtained by condensation of 2,4-di-tert- butylphosphonite with biphenylSML = 18 mg/kg and in co ance with the specifications mentioned in Annex V8370000141-22-0Ricinoleic acidSML = 42 mg/kg	72800	01241-94-7		SML = 2,4 mg/kg
74400salt(expressed as marganese)74400Phosphorous acid, tris(nonyl- and/or dimonylphenyl) esterSML = 30 mg/kg77440Polyethyleneglycol dirici- noleateSML = 42 mg/kg77520 $61791-12-6$ Polyethyleneglycol ester of castor oilSML = 42 mg/kg7832009004-97-1Polyethyleneglycol monori- cinoleateSML = 42 mg/kg8120071878-19-8Poly[6-[(1,1,3,3-tetramethyl- buty]amino]-1,3,5-triazine- 2,4-diyl][(2,2,6,6-tetra- methyl-4-piperidyl)imino] hexamethyl-4-piperidyl)imino]SML = 3 mg/kg8168007681-11-0Potassium iodideSML(T) = 1 mg/kg (1) (expressed as cobalt)8202019019-51-3Propionic acid, cobalt saltSML(T) = 0,05 mg/kg (4) (expressed as cobalt)83595119345-01-6Reaction product of di-tert- butylphosphonite with biphenyl, obtained by condensation of 2,4-di-tert- butylphenol with friedel craft reaction product of phos- phorus trichloride and biphenylSML = 42 mg/kg8370000141-22-0Ricinoleic acidSML = 42 mg/kg	73040	13763-32-1	Phosphoric acid, lithium salts	SML(T) = 0,6 mg/kg (⁸) (expressed as lithium)
77440Polyethyleneglycol dirici- noleateSML = 42 mg/kg77520 $61791-12-6$ Polyethyleneglycol ester of castor oilSML = 42 mg/kg78320 $09004-97-1$ Polyethyleneglycol monori- cinoleateSML = 42 mg/kg81200 $71878-19-8$ Poly[6-[(1,1,3,3-tetramethyl- 	73120	10124-54-6	· · ·	
77520 $noleate$ $noleate$ $SML = 42 mg/kg$ 77520 $61791-12-6$ $Polyethyleneglycol ester ofcastor oilSML = 42 mg/kg7832009004-97-1Polyethyleneglycol monori-cinoleateSML = 42 mg/kg8120071878-19-8Poly[6-[(1,1,3,3-tetramethyl-butyl)amino]-1,3,5-trizaine-2,4-diyl][(2,2,6,6-tetra-methyl-4-piperidyl)imino]hexamethylene[(2,2,6,6-tetra-methyl-4-piperidyl)imino]SML = 3 mg/kg8168007681-11-0Potassium iodideSML(T) = 1 mg/kg (^{11}) (expressed as cobalt)8202019019-51-3Propionic acid, cobalt saltSML(T) = 0,05 mg/kg (^{14})(expressed as cobalt)83595119345-01-6Reaction product of di-tert-butylphosphonite withbiphenyl, obtained bycondensation of 2,4-di-tert-butylphenol with friedel craftreaction product of phos-phorus trichloride andbiphenylSML = 42 mg/kg8370000141-22-0Ricinoleic acidSML = 42 mg/kg$	74400		Phosphorous acid, tris(nonyl- and/or dimonylphenyl) ester	SML = 30 mg/kg
7832009004-97-1Polythyleneglycol monori- cinoleateSML = 42 mg/kg8120071878-19-8Poly[6-[(1,1,3,3-tetramethyl- butyl)amino]-1,3,5-triazine- 2,4-diyl][(2,2,6,6-tetra- 	77440			SML = 42 mg/kg
8120071878-19-8Poly[6-[(1,1,3,3-tetramethyl- butyl)amino]-1,3,5-triazine- 2,4-diyl][(2,2,6,6-tetra- methyl-4-piperidyl)imino]- hexamethylene[(2,2,6,6-tetra- methyl-4-piperidyl)imino]SML = 3 mg/kg8168007681-11-0Potassium iodideSML(T) = 1 mg/kg (¹¹) (exp as iodium)8202019019-51-3Propionic acid, cobalt saltSML(T) = 0,05 mg/kg (¹⁴) (expressed as cobalt)83595119345-01-6Reaction product of di-tert- butylphosphonite with biphenyl, obtained by condensation of 2,4-di-tert- butylphenol with friedel craft reaction product of phos- phorus trichloride and biphenylSML = 42 mg/kg8370000141-22-0Ricinoleic acidSML = 42 mg/kg	77520	61791-12-6	castor oil	SML = 42 mg/kg
butyl)amino]-1,3,5-triazine- 2,4-diyl][(2,2,6,6-tetra- methyl-4-piperidyl)imino]- hexamethylene[(2,2,6,6-tetra- methyl-4-piperidyl)imino]8168007681-11-0Potassium iodideSML(T) = 1 mg/kg (¹¹) (exp as iodium)8202019019-51-3Propionic acid, cobalt saltSML(T) = 0,05 mg/kg (¹⁴) (expressed as cobalt)83595119345-01-6Reaction product of di-tert- butylphosphonite with biphenyl, obtained by condensation of 2,4-di-tert- butylphenol with friedel craft reaction product of phos- phorus trichloride and biphenylSML = 42 mg/kg8370000141-22-0Ricinoleic acidSML = 42 mg/kg	78320	09004-97-1		
8202019019-51-3Propionic acid, cobalt saltas iodium)83595119345-01-6Reaction product of di-tert- butylphosphonite with biphenyl, obtained by condensation of 2,4-di-tert- butylphenol with friedel craft reaction product of phos- phorus trichloride and biphenylSML(T) = 0,05 mg/kg (14) (expressed as cobalt)8370000141-22-0Ricinoleic acidSML = 18 mg/kg and in con ance with the specifications mentioned in Annex V	81200	71878-19-8	butyl)amino]-1,3,5-triazine- 2,4-diyl][(2,2,6,6-tetra- methyl-4-piperidyl)imino]- hexamethylene[(2,2,6,6-tetra-	SML = 3 mg/kg
 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 phos- phorus trichloride and biphenyl 83700 00141-22-0 Ricinoleic acid SML = 18 mg/kg and in con ance with the specifications mentioned in Annex V SML = 18 mg/kg and in con ance with the specifications SML = 18 mg/kg and in con ance with the specifications SML = 18 mg/kg and in con ance with the specifications SML = 42 mg/kg 	81680	07681-11-0	Potassium iodide	$SML(T) = 1 mg/kg (^{11}) (expressedas iodium)$
butylphosphonite with biphenyl, obtained by condensation of 2,4-di-tert- butylphenol with friedel craft reaction product of phos- phorus trichloride and biphenylance with the specifications mentioned in Annex V8370000141-22-0Ricinoleic acidSML = 42 mg/kg	82020	19019-51-3	Propionic acid, cobalt salt	
	83595	119345-01-6	butylphosphonite with biphenyl, obtained by condensation of 2,4-di-tert- butylphenol with friedel craft reaction product of phos- phorus trichloride and	
	83700	00141-22-0	Ricinoleic acid	SML = 42 mg/kg
84800 00087-18-3 Salicylic acid, 4-tert-butyl- SML = 12 mg/kg phenyl ester	84800	00087-18-3	Salicylic acid, 4-tert-butyl-	SML = 12 mg/kg

Ref. No	CAS No	Name	Restrictions and/or specifications
84880	00119-36-8	Salicylic acid, methyl ester	SML = 30 mg/kg
85760	12068-40-5	Silicic acid, lithium alumi- nium salt (2:1:1)	SML(T) = 0,6 mg/kg (⁸) (expresse as lithium)
85920	12627-14-4	Silicic, acid, lithium salt	SML(T) = 0,6 mg/kg (⁸) (expresse as lithium)
86800	07681-82-5	Sodium iodide	SML(T) = 1 mg/kg (¹¹) (expresse as iodium)
86880	_	Sodium monoalkyl dialkyl- phenoxybenzenedisulphonate	SML = 9 mg/kg
89170	13586-84-0	Stearic acid, cobalt salt	$SML(T) = 0.05 mg/kg (^{14})$ (expressed as cobalt)
92000	07727-43-7	Sulphuric acid, barium salt	$SML(T) = 1 mg/kg (^{12}) (expresses as barium)$
92320	_	Tetradecyl- polyethyleneglycol(EO = 3- 8) ether of glycolic acid	SML = 15 mg/kg
92560	38613-77-3	Tetrakis(2,4-di-tert-butyl- phenyl)-4-4'-biphenylylene diphosphonite	SML = 18 mg/kg
92800	00096-69-5	4,4'-Thiobis(6-tert-butyl-3- methylphenol)	SML = 0,48 mg/kg
92880	41484-35-9	Thiodiethanol bis(3-(3-5-di- tert-butyl-4-hydroxyphenyl)- propionate)	SML = 2,4 mg/kg
93120	00123-28-4	Thiodipropionic acid, dido- decyl ester	$SML(T) = 5 mg/kg (^{21})$
93280	00693-36-7	Thiodipropionic acid, diocta- decyl ester	$SML(T) = 5 mg/kg (^{21})$
94560	00122-20-3	Triisopropanolamine	SML = 5 mg/kg
95280	40601-76-1	1,3,5-Tris(4-tert-butyl-3- hydroxy-2,6-dimethyl- benzyl)-1,3,5-triazine- 2,4,6(1H,3H,5H)-trione	SML = 6 mg/kg
95360	27676-62-6	1,3,5-Tris(3,5-di-tert-butyl-4- hydroxybenzyl)-1,3,5-tria- zine-2,4,6-(1H,3H,5H)-trione	SML = 5 mg/kg
95600	01843-03-4	1,1,3-Tris(2-methyl-4- hydroxy-5-tert-butylphenyl)- butane	SML = 5 mg/kg

▼<u>M6</u>

ANNEX IV

	PM/REf No	CAS No	Name	Restrictions and/or specifications
	(1)	(2)	(3)	(4)
▼ <u>C2</u>	18888	80181-31-3	3-hydroxybutanoic acid-3- hydro xypentanoic acid, copolymer	SML = 0,05 mg/kg for crotonic acid (as impurity) and in compli- ance with the specifications laid down in Annex IV

PRODUCTS OBTAINED BY MEANS OF BACTERIAL FERMENTATION

▼<u>M5</u>

ANNEX V

SPECIFICATIONS

▼<u>M6</u>

Part A: General specifications

The material and article manufactured by using aromatic isocyanates or colorants prepared by diazocoupling, shall not release primary aromatic amines (expressed as aniline) in a detectable quantity (DL 0,02 mg/kg of food or food simulant, analytical tolerance included). However the migration value of the primary aromatic amines listed in this Directive are excluded from this restriction.

▼<u>M5</u>

Part B: Other specifications

PM/Ref No	Other specifications			
18888	3-HYDROXYBUTANOIC ACI LYMER	D-3-HYDROXYPENTANOIC ACID, COPO-		
	Definition	These 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 geneti- cally engineered and has been derived from a single wild-type organism <i>Alcaligenes eutrophus</i> strain H16 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.		
	— Chemical name	Poly(3-D-hydroxybutanoate-co-3-D-hydroxypen- tanoate)		
	— CAS No	80181-31-3		
	— Structural formula			
		CH ₃ CH ₃ O CH ₂ O $ $ $ $ $ $ $ (-O-CH-CH2- C-)m - (O-CH-CH2-C-)nwhere n/(m + n) greater than 0 and less orequal to 0,25$		
	- Average molecular weight	Not less than 150 000 daltons (measured by gel permeation chromatography).		
	— Assay	Not less than 98 % poly(3-D-hydroxybutanoato- co-3-D-hydroxypentanoate) analysed after hydro- lysis as a mixture of 3-D-hydroxybutanoic and 3- D-hydroxypentanoic acids		
	Description	White to off-white powder after isolation		
	Characteristics			
	- Identification tests:			
	— Solubility	Soluble in chlorinated hydrocarbons such as chloroform or dichloromethane but practically insoluble in ethanol, aliphatic alkanes and water.		

▼<u>C2</u>

▼<u>M5</u>

▼M5		M5	
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PM/Ref No	Other specifications		
	— Migration	The migration of crotonic acid should not excee 0,05 mg/kg food.	
	— Purity	Prior to granulation the raw material copolymer powder must contain:	
	— Nitrogen	Not more than 2 500 mg/kg of plastic	
	— Zinc	Not more than 100 mg/kg of plastic	
	— Copper	Not more than 5 mg/kg of plastic	
	— Lead	Not more than 2 mg/kg of plastic	
	— Arsenic	Not more than 1 mg/kg of plastic	
	— Chromium	Not more than 1 mg/kg of plastic.	
23547	POLYDIMETHYLSILOXANE (Mw > 6 800) Minimum viscosity 100×10^{-6} m ² /s (= 100 centistokes) at 25 °C		
25385	TRIALLYLAMINE 40 mg/kg hydrogel at a ratio of 1 kg 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		
12680	CHLORODIFLUOROM	IETIIANIE	
43680			
47210		Content of chlorofluoromethane less than 1 mg/kg of the substance	
47210		DIBUTYLTHIOSTANNOIC ACID POLYMER	
	Molecular unit = (C_8H_{18})	$S_3 S H_2 / H (H - 1, 5-2)$	
76721	POLYDIMETHYLSILC	DXANE (Mw > 6 800)	
	Minimum viscosity 100	\times 10-6 m²/s (= 100 centistokes at 25 °C	
83595	595 REACTION PRODUCT OF DI-TERT-BUTYLPHOSPHONITE WITH BIP OBTAINED BY CONDENSATION OF 2,4-DI-TERT-BUTYLPHENOL V FRIEDEL CRAFT REACTION PRODUCT OF PHOSPHORUS TRICHLO AND BIPHENYL		
	Composition		
	— 4,4'-Biphenylene-bis	[0,0-bis(2,4-di-tert-butylphenyl)phosphonite]	
		3) (36-46 % w/w (¹))	
	— 4,3'-Biphenylene-bis (CAS No 118421-00	[0,0-bis(2,4-di-tert-butylphenyl)phosphonite]	
		[0,0-bis(2,4-di-tert-butylphenyl)phosphonite]	
	(CAS No 118421-01	-5) (1-5 % w/w)	
		is[0,0-bis(2,4-di-tert-butylphenyl)phosphonite]	
	(CAS No 91362-37- — Tris(2,4-di-tert-butyl		
	(CAS No 31570-04-		
	 4,4'-Biphenylene-0,0 butylphenyl)phospho (CAS No 112949-97 		
	Other specifications		
	_	minimum 5,4 % to 5,9 %	
	-	num 10 mg KOH per gram	
	— Melt range of 85-11	0 °C	
88640	SOYBEAN OIL, EPOXIDISED		
95859	Oxirane < 8 %, iodine r WAXES, REFINED, DI HYDROCARBON FEE	ERIVED FROM PETROLEUM BASED OR SYNTHETIC	
		e the following specifications:	
	5 % (w/w)	ydrocarbons with carbon number less than 25: not more that	
	- Viscosity not less th	an 11×10^{-6} m ² /s (= 11 centistokes) at 100 °C	

▼<u>M5</u>

	PM/Ref No	Other specifications	
	95883	 Average molecular weight not less than 500 WHITE MINERAL OILS, PARAFFINIC DERIVED FROM PETROLEUM BASED HYDROCARBON FEEDSTOCKS The product should have the following specifications: 	
▼ <u>M6</u>		 Content of mineral hydrocarbons with carbon number less than 25: not more than 5 % (w/w) Viscosity not less than 8,5 × 10⁶ m²/s (= 8,5 centistokes) at 100 °C Average molecular weight not less than 480 	

(1) Quantity of substance used/quantity of formulation.

ANNEX VI

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 PM/ 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 PM/ 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 PM/ 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 PM/ 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 PM/ 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 PM/REF Nos: 30080, 42320, 45195, 45200, 53610, 81760, 89200 and 92030.
- (*) 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 PM/REF Nos: 42400, 64320, 73040, 85760, 85840, 85920 and 95725.
- (°) 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 PM/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 of the following substances mentioned as PM/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 PM/REF Nos: 36720, 36800 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 PM/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 PM/REF Nos: 44960, 68078, 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 PM/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 PM/REF Nos: 49600, 67520 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 PM/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 PM/REF Nos: 67600, 67680 and 67760.

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- (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 PM/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 PM/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 PM/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 PM/REF Nos: 17260 and 18670.

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