

II

(Acts whose publication is not obligatory)

COMMISSION

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 1989 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;

⁽¹⁾ OJ No L 40, 11. 2. 1989, p. 38.

⁽²⁾ OJ No L 297, 23. 10. 1982, p. 26.

⁽³⁾ OJ No L 372, 31. 12. 1985, p. 14.

Whereas Council Directive 78/142/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 Directives 80/766/EEC⁽²⁾ and 81/432/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.

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

⁽¹⁾ OJ No L 44, 15. 2. 1978, p. 15.

⁽²⁾ OJ No L 213, 16. 8. 1980, p. 42.

⁽³⁾ OJ No L 167, 24. 6. 1981, p. 6.

⁽⁴⁾ OJ No L 151, 19. 6. 1980, p. 21.

However, the following shall not be regarded as plastics:

- (i) varnished or unvarnished regenerated cellulose film, covered by Council Directive 83/229/EEC⁽⁵⁾, as amended by Directive 86/388/EEC⁽⁶⁾;
- (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.

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 2, 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 2, according to Article 3 of Directive 89/109/EEC.

⁽⁵⁾ OJ No L 123, 11. 5. 1983, p. 31.

⁽⁶⁾ OJ No L 228, 14. 8. 1986, p. 32.

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.

4. As from 1 January 1993, only those monomers and other starting substances listed in Annex II, Section A shall be used for the manufacture of plastics materials and articles, subject to the restrictions specified therein. However, before 1 January 1992 it may be decided that, in some justified cases, for certain substances listed in Annex II, section B, this time limit will be postponed.

5. However 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 polymerized products in liquid, powder or dispersion form, such as varnishes, lacquers, paints, etc.,
- silicones,...
- epoxy resins,
- products obtained by means of bacterial fermentation,
- adhesives and adhesion promoters,
- printing inks.

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/dm².

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.

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.

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.

Done at Brussels, 23 February 1990.

For the Commission

Martin BANGEMANN

Vice-President

ANNEX I

FURTHER PROVISIONS APPLICABLE WHEN CHECKING COMPLIANCE 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:

$$M = \frac{m \cdot a_2}{a_1 \cdot q} \cdot 1\,000$$

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;
- a₂ 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,
- 6 mg/kg or 1 mg/dm² in migration tests using the other simulants referred to in Directives 82/711/EEC and 85/572/EEC.

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.
5. The list contains the following information :
 - column 1 (PM/REF. No): the EEC packaging material references number of the list,
 - column 2 (CAS No): the CAS (Chemical Abstracts Service) registry number,
 - column 3 (Name): the chemical name,
 - column 4 (Restrictions). These may include :
 - specific migration limit (SML),
 - maximum permitted quantity of the 'residual' substance in the material or article (QM),
 - any other restriction specifically mentioned.
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.

8. A number of abbreviations or expressions are used in column 4 of the table, the meanings of which are as follows :

DL = detection limit of the method of analysis ;

FP = finished material or article ;

NCO = isocyanate moiety ;

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 ;

SML = specific migration limit in food or in food simulant, unless it is specified otherwise ;

SML (T) = specific migration limit in food or in food simulant expressed as total of moiety or substance(s) indicated.

SECTION A

LIST OF AUTHORIZED MONOMERS AND OTHER STARTING SUBSTANCES

PM/REF- No	CAS No	Name	Restrictions
(1)	(2)	(3)	(4)
10030	000514-10-3	Abietic acid	
10060	000075-07-0	Acetaldehyde	
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	
10690	000079-10-7	Acrylic acid	
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	
11470	000140-88-5	Acrylic acid, ethyl ester	
	000818-61-1	Acrylic, hydroxyethyl ester	See 'Acrylic acid, monoester with ethyleneglycol'
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	
11980	000925-60-0	Acrylic acid, propyl ester	
12100	000107-13-1	Acrylonitrile	SML = not detectable (DL = 0,020 mg/kg, analytical tolerance included)
12130	000124-04-9	Adipic acid	
12310	000124-04-9	Albumin	
12340	000124-04-9	Albumin, coagulated by formaldehyde	
12375	000124-04-9	Alcohols, aliphatic, monohydric, saturated, linear, primary (C4-C22)	
12820	000123-99-9	Azelaic acid	
13000	001477-55-0	1,3-Benzenedimethanamine	SML = 0,05 mg/kg
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-Trimethylolpropan'
13390	000105-08-8	1,4-Bis(hydroxymethyl)cyclohexane	
13480	000080-05-7	2,2-Bis(4-hydroxyphenyl)propane	SML = 3 mg/kg
13510	001675-54-3	2,2-Bis(4-hydroxyphenyl)propan-bis(2,3-epoxypropyl)ether	Qm = 1 mg/kg in FP or SML = not detectable (DL = 0,020 mg/kg, analytical tolerance included)
	000110-98-5	Bis(hydroxypropyl)ether	See 'Dipropyleneglycol'
	005124-30-1	Bis(4-isocyanatocyclohexyl)methane	See 'Dicyclohexylmethane-4,4'-di-isocyanate'

PM/REF- No	CAS No	Name	Restrictions
(1)	(2)	(3)	(4)
13600	047465-97-4	3,3-Bis(3-methyl-4-hydroxyphenyl-2-indolinone	SML = 1,8 mg/kg
	000080-05-7	Bisphenol A	See '2,2-Bis(4-hydroxyphenyl)propane'
	001675-54-3	Bisphenol A bis(2,3-epoxypropyl)ether	See '2,2-Bis(4-hydroxyphenyl)propane-bis(2,3-epoxypropyl)ether'
13630	000106-99-0	Butadiene	QM = 1 mg/kg in FP or SML = not detectable (DL = 0,02 mg/kg, analytical tolerance included)
13690	000107-88-0	1,3-Butanediol	
13840	000071-36-3	1-Butanol	
13870	000106-98-9	1-Butene	
13900	000107-01-7	2-Butene	
14110	000123-72-8	Butyraldehyde	
14140	000107-92-6	Butyric acid	
14170	000106-31-0	Butyric anhydride	
14200	000105-60-2	Caprolactam	SML(T) = 15 mg/kg
14230	002123-24-2	Caprolactam, sodium salt	SML(T) = 15 mg/kg (expressed as caprolactam)
14320	000124-07-2	Caprylic acid	
14350	000630-08-0	Carbon monoxide	
14380	000075-44-5	Carbonyl chloride	Qm = 1 mg/kg in EP
14410	008001-79-4	Castor oil (food grade quality) (food grade quality)	
14500	009004-34-6	Cellulose	
14530	007782-50-5	Chlorine	
	000106-89-8	1-Chloro-2,3-epoxypropane	See 'Epichlorhydrin'
14680	000077-92-9	Citric acid	
14710	000108-39-4	m-Cresol	
14740	000095-48-7	o-Cresol	
14770	00106-44-5	p-Cresol	
	000105-08-8	1,4-Cyclohexanedimethanol	See '1,4-Bis(hydroxymethyl)cyclohexane'
14950	003173-53-3	Cyclohexyl isocyanate	QM(T) = 1 mg/kg in fp (expressed as NCO)
15100	000112-30-1	1-Decanol	
	000107-15-3	1,2-Diaminoethane	See 'Ethylenediamine'
	000124-09-4	1,6-Diaminohexane	See 'Hexamethylenediamine'
15700	005124-30-1	Dicyclohexylmethane-4,4'-diisocyanate	QM(T) = 1 mg/kg in FP (expressed as NCO)
15760	000111-46-6	Diethyleneglycol	SML(T) = 30 mg/kg alone or with ethyleneglycol
15880	000120-80-9	1,2-Dihydroxybenzene	SML = 6 mg/kg
15910	000108-46-3	1,3-Dihydroxybenzene	SML = 2,4 mg/kg
15940	000123-31-9	1,4-Dihydroxybenzene	SML = 0,6 mg/kg
15970	000611-99-4	4,4'-Dihydroxybenzophenone	SML = 6 mg/kg
16000	000092-88-6	4,4'-Dihydroxydiphenyl	SML = 6 mg/kg
16150	000108-01-0	Dimethylaminoethanol	SML = 18 mg/kg
16240	000091-97-4	3,3'-Dimethyl-4,4'-diisocyanatodiphenyl	QM(T) = 1 mg/kg in FP (expressed as NCO)

PM/REF- No	CAS No	Name	Restrictions
(1)	(2)	(3)	(4)
16480	000126-58-9	Dipentaerythritol	
16570	004128-73-8	Diphenyl ether-4,4'-diisocyanate	QM(T) = mg/kg in FP (expressed as NCO)
16600	005873-54-1	Diphenylmethane-2,4'-diisocyanate	QM(T) = 1 mg/kg in FP (expressed as NCO)
16630	000101-68-8	Diphenylmethane-4,4'-diisocyanate	QM(T) = 1 mg/kg in FP (expressed as NCO)
16660	000110-98-5	Dipropylene glycol	
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	SML(T) = 30 mg/kg alone or with diethyleneglycol
17005	000151-56-4	Ethyleneimine	SML = not detectable (DG = 0,010 mg/kg)
17020	000075-21-8	Ethylene oxide	Qm = 1 mg/kg in FP
17170	061788-47-4	Fatty acids, coco	
17200	068308-53-2	Fatty acids, soya	
17230	061790-12-3	Fatty acids, tall oil	
17260	000050-00-0	Formaldehyde	SML = 15 mg/kg
17290	000110-17-8	Fumaric acid	
17530	000050-99-7	Glucose	
18010	000110-94-1	Glutaric acid	
18100	000056-81-5	Glycerol	
18310	036653-82-4	1-Hexadecanol	
18460	000124-09-4	Hexamethylenediamine	SML = 2,4 mg/kg
18640	000822-06-0	Hexamethylene diisocyanate	QM(T) = 1 mg/kg in EP (expressed as NCO)
18670	000100-97-0	Hexamethylentetramine	
	000123-31-9	Hydroquinone	See '1,4-Dihydroxybenzene'
18880	000099-96-7	p-Hydroxybenzoic acid	
19000	000115-11-7	Isobutene	
19510	011132-73-3	Lignocellulose	
19540	000110-16-7	Maleic acid	SML(T) = 30 mg/kg
19960	000108-31-6	Maleic anhydride	SML(T) = 30 mg/kg (expressed as maleic acid)
	000108-78-1	Melamine	See '2,4,6-Triamino-1,3,5-tri- azine'
20020	000079-41-4	Methacrylic acid, butyl ester	
20110	000097-88-1	Methacrylic acid, sec-butyl ester	
20140	002998-18-7	Methacrylic acid, tert-butyl ester	
20170	000585-07-9	Methacrylic acid, ethyl ester	
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	
21340	002210-28-8	Methacrylic acid, propyl ester	
21460	000760-93-0	Methacrylic anhydride	
21490	000126-98-7	Methacrylnitrile	SML = not detectable (DG = 0,020 mg/kg, analytical tolerance included)
21550	000067-56-1	Methanol	

PM/REF- No	CAS No	Name	Restrictions
(1)	(2)	(3)	(4)
22150	000691-37-2	4-Methyl-1-pentene	
22420	003173-72-6	1,5-Naphtalene diisocyanate	QM(T) = 1 mg/kg in FP (expressed as NCO)
22450	009004-70-0	Nitrocellulose	
22480	000143-08-8	1-Nonanol	
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
22780	000057-10-3	Palmitic acid	
22840	000115-77-5	Pentaerythritol	
22870	000071-41-0	1-Pentanol	
22960	000108-95-2	Fenol	
23050	000108-45-2	1,3-Phenylenediamine	QM = 1 mg/kg in FP
	000075-44-5	Phosgene	See 'Carbonyl chloride'
23170	007664-38-2	Phosphoric acid	
	007664-38-2	Phthalic acid	See 'Terephthalic acid'
23380	000085-44-9	Phthalic anhydride	
23470	000080-56-8	alpha-Pinene	
23500	000127-91-3	beta-Pinene	
23590	025322-68-3	Polyethyleneglycol	
23650	025322-69-4	Polypropyleneglycol (Molecular weight greater than 400)	
23740	000057-55-6	1,2-Propandiol	
23800	000071-23-8	1-Propanol	
23830	000067-63-0	2-Propanol	
23860	000123-38-6	Propionaldehyde	
23890	000079-09-4	Propionic acid	
23950	000123-62-6	Propionic anhydride	
23980	000115-07-1	Propylene	
24010	000075-56-9	Propylene oxide	QM = 1 mg/kg in FP
	000120-80-9	Pyrocatechol	See '1,2-Dihydroxybenzene'
24070	073138-82-6	Resin acids and rosin acids	
	000108-46-3	Resorcinol	See '1,3-Dihydroxybenzene'
24100	008050-09-7	Rosin	
24130	008050-09-7	Rosin gum	
24160	008052-10-6	Rosin tall oil	
24190	009014-63-5	Rosin wood	
24250	009006-04-6	Rubber, natural	
24280	000111-20-6	Sebacic acid	
24490	000050-70-4	Sorbitol	
24520	008001-22-7	Soybean oil	
24550	000057-11-4	Stearic acid	
24610	000100-42-5	Styrene	
24820	000110-15-6	Succinic acid	
24880	000057-50-1	Sucrose	
24910	000100-21-0	Terephthalic acid	SML = 7,5 mg/kg
24970	000120-61-6	Terephthalic acid, dimethyl ester	
25090	000112-60-7	Tetraethyleneglycol	

PM/REF- No	CAS No	Name	Restrictions
(1)	(2)	(3)	(4)
25150	000109-99-9	Tetrahydrofuran	SML = 0,6 mg/kg
25180	000102-60-3	N,N,N',N'-Tetrakis(2-hydroxypropyl)ethyleendiamine	
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	026747-90-0	2,3-Epoxypropyltrialkyl(C5-C15)acetaat	SML = 6 mg/kg
25420	000108-78-1	2,4,6-Triamino-1,3,5-triazine	SML = 30 mg/kg
25510	000112-27-6	Triethyleneglycol	
25600	000077-99-6	1,1,1-Trimethylolpropane	SML = 6 mg/kg
25960	000057-13-6	Urea	
26050	000075-01-4	Vinyl chloride	See Council Directive 78/142/EEC
26110	000075-35-4	Vinylidene chloride	QM = 5 mg/kg in FP or SML = not detectable (DG = 0,05 mg/kg)

SECTION B

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

PM/REF No	CAS No	Name	Restrictions
(1)	(2)	(3)	(4)
	000542-02-9	Acetoguanamine	See '2,4-Diamino-6-methyl-1,3,5-triazine'
10180	000556-08-1	<i>p</i> -(Acetylamino)benzoic acid	
10240	000556-08-1	Acids, aliphatic, dicarboxylic, esters with alcohols, aliphatic, monohydric	
10270	000556-08-1	Acids, aliphatic, dicarboxylic (C 3-C 12), esters with alcohols, unsaturated (C 3-C 18)	
10300	000556-08-1	Acids, aliphatic, dicarboxylic, saturated (C 4-C 18)	
10330	000556-08-1	Acids, aliphatic, dicarboxylic, unsaturated (C 4-C 12)	
10360	000556-08-1	Acids, aliphatic, dicarboxylic, unsaturated, esters with polyethyleneglycol	
10390	000556-08-1	Acids, aliphatic, dicarboxylic, unsaturated, esters with polyethyleneglycol	
10420	000556-08-1	Acids, aliphatic, mono- and dicarboxylic (C 2-C 20), vinyl esters	
10450	000556-08-1	Acids, aliphatic, monocarboxylic (C 3-C 12) esters with alcohols, unsaturated (C 3-C 18)	
10480	000556-08-1	Acids, aliphatic, monocarboxylic, saturated (C 2-C 24)	
10510	000556-08-1	Acids, aliphatic, monocarboxylic, unsaturated (C 3-C 24)	
10540	000556-08-1	Acids, aliphatic, monocarboxylic, unsaturated (C 3-C 8), esters with alcohols, aliphatic, monohydric, saturated (C 2-C 12)	
10570	000556-08-1	Acids, aliphatic, monocarboxylic, unsaturated, esters with polypropyleneglycol	
10600	000556-08-1	Acids, linear, with an even number of carbon atoms (C 8-C 22), and the dimers and trimers of the unsaturated acids	
10630	000079-06-1	Acrylamide	
10660	015214-89-8	Acrylamidomethylpropanesulphonic acid	
10720	000999-55-3	Acrylic acid, allyl ester	
10750	002495-35-4	Acrylic acid, benzyl ester	
10870	002206-89-5	Acrylic acid, 2-chloroethyl ester	
10900	002206-89-5	Acrylic acid, cyclohexylaminoethyl ester	
10930	003066-71-5	Acrylic acid, cyclohexyl ester	
10960	016868-13-6	Acrylic acid, cyclopentyl ester	
10990	002156-96-9	Acrylic acid, decyl ester	
11020	019485-03-1	Acrylic acid, diester with 1,3-butanediol	
11050	001070-70-8	Acrylic acid, diester with 1,4-butanediol	
11080	004074-88-8	Acrylic acid, diester with diethyleneglycol	
11110	002274-11-5	Acrylic acid, diester with ethyleneglycol	
11140	013048-33-4	Acrylic acid, diester with 1,6-hexanediol	

PM/REF No	CAS No	Name	Restrictions
(1)	(2)	(3)	(4)
11170	026570-48-9	Acrylic acid, diester with polyethyleneglycol	
11200	002426-54-2	Acrylic acid, 2-(diethylamino)ethyl ester	
11230	002439-35-2	Acrylic acid, 2-(dimethylamino)ethyl ester	
11260	000106-90-1	Acrylic acid, 2,3-epoxypropyl ester	QM(T) = 5 mg/kg in FP (expressed as epoxy)
11290	000106-90-1	Acrylic acid, esters with alcohols, aliphatic, monohydric, saturated (C 1-C 21)	
11320	000106-90-1	Acrylic acid, esters with alcohols, aliphatic, monohydric, unsaturated (C 4-C 18)	
11350	000106-90-1	Acrylic acid, esters with alcohols, aliphatic, polyhydric (C 2-C 21)	
11380	000106-90-1	Acrylic acid, esters with etheralcohols	
11410	000106-90-1	Acrylic acid, esters with glycoethers obtained from mono- and/or diglycols with alcohols, aliphatic, monohydric (C 1-C 18)	
11440	044992-01-0	Acrylic acid, ester with trimethylethanolammonium chloride	
11500	000103-11-7	Acrylic acid, 2-ethylhexyl ester	
11530	000999-61-1	Acrylic acid, 2-hydroxypropyl ester	
11560	005888-33-5	Acrylic acid, isobornyl ester	
11620	001330-61-6	Acrylic acid, isodecyl ester	
11650	029590-42-9	Acrylic acid, isooctyl ester	
11740	010095-13-3	Acrylic acid, monoester with 1,3-butanediol	
11770	002478-10-6	Acrylic acid, monoester with 1,4-butanediol	
11800	013533-05-6	Acrylic acid, monoester with diethyleneglycol	
11860	013533-05-6	Acrylic acid, monoester with propyleneglycol	
11890	002499-59-4	Acrylic acid, n-octyl ester	
11920	005048-82-8	Acrylic acid, phenylaminoethyl ester	
11950	000937-41-7	Acrylic acid, phenyl ester	
12010	040074-09-7	Acrylic acid, 2-sulphoethyl ester	
12040	039121-78-3	Acrylic acid, sulphopropyl ester	
12070	002177-18-6	Acrylic acid, vinyl ester	
12160	002998-04-1	Adipic acid, diallyl ester	
12190	000105-97-5	Adipic acid, didecyl ester	
12220	027178-16-1	Adipic acid, diisodecyl ester	
12250	000123-79-5	Adipic acid, dioctyl ester	
12280	002035-75-8	Adipic anhydride	
12370	002035-75-8	Alcohols, aliphatic, monohydric, saturated, linear, secondary or tertiary (C 4-C 22)	
12400	002035-75-8	Alcohols, aliphatic, monohydric, unsaturated (up to C 18)	
12430	002035-75-8	Alcohols, aliphatic, polyhydric (up to C 18)	
12460	002035-75-8	Alcohols, cycloaliphatic, mono- and/or polyhydric, substituted (up to C 18)	
12490	002035-75-8	Aldehydes (C 4)	
12520	002035-75-8	Alkadienes	
12550	002035-75-8	n-Alkenes (up to C 16)	

PM/REF No	CAS No	Name	Restrictions	
(1)	(2)	(3)	(4)	
12580	002035-75-8	<i>p</i> -Alkyl(C 4-C 9) phenols	QM(T) = 5 mg/kg in FP (expressed as epoxy)	
12610	000107-18-6	Allyl alcohol		
12640	000106-92-3	Allyl 2,3-epoxypropyl ether		
12670	002855-13-2	1-Amino-3-aminomethyl-3,5,5-trimethylcyclohexane		
12700	000150-13-0	<i>p</i> -Aminobenzoic acid		
12730	000060-32-2	6-Aminocaproic acid		
12760	000060-32-2	omega-Aminocarboxylic acids, aliphatic, linear (C 6-C 12)		
12790	000080-46-6	<i>p</i> -tert-Amylphenol		
12850	029602-44-6	Azelaic acid, bis(2-hydroxyethyl) ester		
12880	000123-98-8	Azelaic acid dichloride		
12910	001732-10-1	Azelaic acid, dimethyl ester	See "Trimellitic acid"	
12940	004080-88-0	Azelaic acid, diphenyl ester		
12970	004196-95-6	Azelaic anhydride		
13030	000539-48-0	1,4-Benzenedimethanamine		
	000528-44-9	1,2,4-Benzenetricarboxylic acid		
13060	004422-95-1	1,3,5-Benzenetricarboxylic acid trichloride		
	000091-76-9	Benzoguanamine		See '2,4-Diamino-6-phenyl-1,3,5-triazine'
13120	000769-78-8	Benzoic acid, vinyl ester		
13180	000498-66-8	Bicyclo[2.2.1]hept-2-ene		
13210	001761-71-3	Bis(4-aminocyclohexyl)methane		
13240	003377-24-0	2,2-Bis(4-aminocyclohexyl)propane		
13300	038050-97-4	1,4-Bis(4',4''-dihydroxytriphenylmethyl)benzene		
13330	038050-97-4	Bis(2-hydroxyethyl)ether of hydroquinone and its condensation products with propylene oxide		
13360	001620-68-4	2,6-Bis(2-hydroxy-5-methylbenzyl)-4-methylphenol		
13420	000843-55-0	1,1-Bis(4-hydroxyphenyl)cyclohexane		
13450	000125-13-3	3,3-Bis(4-hydroxyphenyl)-2-indolinone		
13570	000141-07-1	1,3-Bis(methoxymethyl)urea	See '4,4'-Dihydroxydiphenylsulphone'	
	000080-09-1	Bisphenol S		
13660	000584-03-2	1,2-Butanediol	QM(T) + 5 mg/kg in FP (expressed as epoxy)	
13720	000110-63-4	1,4-Butanediol		
13750	000513-85-9	2,3-Butanediol		
13780	002425-79-8	1,4-Butanediol-bis(2,3-epoxypropyl)ether		
13810	000505-65-7	1,4-Butanediol formal		
13930	006117-91-5	2-Buten-1-ol		
13960	001852-16-0	N-(Butoxymethyl)acrylamide		
13990	005153-77-5	N-(Butoxymethyl)methacrylamide		
14020	000098-54-4	4-tert-Butylphenol		
14050	000111-34-2	Butyl vinyl ether		
14080	000926-02-3	tert-Butyl vinyl ether		
14260	000502-44-3	Caprolactone		
14290	000502-44-3	Caprolactone, substituted		
14440	064147-40-6	Castor oil, dehydrated		

PM/REF No	CAS No	Name	Restrictions
(1)	(2)	(3)	(4)
14470	008001-78-3 000115-28-6	Castor oil, hydrogenated Chlorendic acid	See 'Hexachloroendomethylene- te-trahydrophthalic acid'
14560	000126-99-8	2-Chloro-1,3-butadiene	
14590	000615-67-8	Chlorohydroquinone	
14620	057981-99-4	Chlorohydroquinone diacetate	
14650	000079-38-9	Chlorotrifluorethylene	QM = 5 mg/kg in FP
14800	003724-65-0	Crotonic acid	
14830	003724-65-0	Crotonic acid, esters with alcohols, mono- and polyhydric	
14860	003724-65-0	Cycloalkenes	
14920	002842-38-8	2-(Cyclohexylamino)ethanol	
14980	001631-25-0	N-Cyclohexylmaleimide	QM = 5 mg/kg in ep
15010	001131-60-8	<i>p</i> -Cyclohexylphenol	
15040	000542-92-7	1,3-Cyclopentadiene	
15070	001647-16-1	1,9-Decadiene	
15130	000872-05-9	1-Decene	
15160	000765-05-9	Decyl vinyl ether	
15190	000765-05-9	Diamines, aliphatic, linear (C 2-C 12)	
15250	000110-60-1	1,4-Diaminobutane	
15280	000542-02-9	2,4-Diamino-6-methyl-1,3,5-triazine	
15310	000091-76-9	2,4-Diamino-6-phenyl-1,3,5-triazine	
15340	000109-76-2	1,3-Diaminopropane	
15370	003236-53-1	1,6-Diamino-2,2,4-trimethylhexane	
15400	003236-54-2	1,6-Diamino-2,4,4-trimethylhexane	
15430	003749-77-7	4,4'-Dicarboxydiphenoxybutane	
15460	003753-05-7	4,4'-Dicarboxydiphenoxyethane	
15490	002215-89-6	4,4'-Dicarboxydiphenyl ether	
15520	004919-48-6	4,4'-Dicarboxydiphenyl sulphide	
15550	002449-35-6	4,4'-Dicarboxydiphenyl sulphone	
15580	001653-19-6	2,3-Dichloro-1,3-butadiene	
15610	000080-07-9	4,4'-Dichlorodiphenyl sulphone	
15640	000156-59-2	cis-1,2-Dichloroethylene	
15670	000156-60-5	trans-1,2-Dichloroethylene	
15730	000077-73-6	Dicyclopentadiene	
15790	000111-40-0	Diethylenetriamine	
16030	001965-09-9	4,4'-Dihydroxydiphenyl ether	
16060	002664-63-3	4,4'-Dihydroxydiphenyl sulphide	
16090	000080-09-1	4,4'-Dihydroxydiphenyl sulphone	
16120	000110-97-4	Diisopropanolamine	
16180	005205-93-6	N-(Dimethylaminopropyl)methacry- lamide	
16210	006864-37-5	3,3'-Dimethyl-4,4'- diaminodicyclohexylmethane	
16270	000526-75-0	2,3-Dimethylphenol	
16300	000105-67-9	2,4-Dimethylphenol	
16330	000095-87-4	2,5-Dimethylphenol	
16360	000576-26-1	2,6-Dimethylphenol	
16390	000126-30-7	2,2-Dimethyl-1,3-propanediol	
16420	000123-91-1	Dioxane	
16450	000646-06-0	1,3-Dioxolane	
16510	000138-86-3	Dipentene	
16540	000102-09-0	Diphenyl carbonate	

PM/REF No	CAS No	Name	Restrictions
(1)	(2)	(3)	(4)
16690	001321-74-0	Divinylbenzene	
16720	000826-62-0	Endomethylenetetrahydrophthalic anhydride	
16810	000826-62-0	Ether alcohols	
16840	000826-62-0	Ethers of N-methylolacrylamide	
16870	000826-62-0	Ethers of N-methylolmethacrylamide	
16900	013036-41-4	N-(Ethoxymethyl)acrylamide	
16930	000075-00-3	Ethyl chloride	
17050	000104-76-7	2-Ethyl-1-hexanol	
17080	000103-44-6	2-Ethylhexyl vinyl ether	
17110	016219-75-3	5-Ethylidenebicyclo[2.2.1]hept-2-ene	
17140	000109-92-2	Ethyl vinyl ether	
17320	002807-54-7	Fumaric acid, diallyl ester	
17350	000105-75-9	Fumaric acid, dibutyl ester	
17380	000623-91-6	Fumaric acid, diethyl ester	
17410	000623-91-6	Fumaric acid, esters with alcohols, aliphatic, monohydric, saturated (C 1-C 18)	
17440	000623-91-6	Fumaric acid, esters with alcohol, aliphatic, monohydric, unsaturated (C 3-C 18)	
17470	000623-91-6	Fumaric acid, esters with alcohols, polyhydric	
17500	000098-01-1	Furfural	
17560	000098-01-1	Glucosides obtained from glucose and 1,3-butanediol	
17590	000098-01-1	Glucosides obtained from glucose and 1,4-butanediol	
17620	000098-01-1	Glucosides obtained from glucose and diethyleneglycol	
17650	000098-01-1	Glucosides obtained from glucose and 2,2-dimethyl-1,3-propanediol	
17680	000098-01-1	Glucosides obtained from glucose and ethyleneglycol	
17710	000098-01-1	Glucosides obtained from glucose and glycerol	
17740	000098-01-1	Glucosides obtained from glucose and 1,6-hexanediol	
17770	000098-01-1	Glucosides obtained from glucose and 1,2,6-hexanetriol	
17800	000098-01-1	Glucosides obtained from glucose and pentaerythritol	
17830	000098-01-1	Glucosides obtained from glucose and polyethyleneglycol (molecular weight greater than 200)	
17860	000098-01-1	Glucosides obtained from glucose and polypropyleneglycol (molecular weight greater than 400)	
17890	000098-01-1	Glucosides obtained from glucose and propanediol	

PM/REF- No.	CAS No	Name	Restrictions
(1)	(2)	(3)	(4)
17920	000098-01-1	Glucosides obtained from glucose and sorbitol	
17950	000098-01-1	Glucosides obtained from glucose and sucrose	
17980	000098-01-1	Glucosides obtained from glucose and 1,1,1-trimethylolpropane	
18040	029733-18-4	Glutaric acid, diisodecyl ester	
18070	000108-55-4	Glutaric anhydride	
18130	004371-64-6	1,1-Heptadecanedicarboxylic acid	
18160	025339-56-4	Heptene	
18190	000592-76-7	1-Heptene	
18220	068564-88-5	N-Heptylamoundecanoic acid	
18250	000115-28-6	Hexachloroendomethylenetetrahydrophthalic acid	QM = 5 mg/kg in FP
18280	000115-27-5	Hexachloroendomethylenetetrahydrophthalic anhydride	
18340	000822-28-6	Hexadecyl vinyl ether	
18370	000592-45-0	1,4-Hexadiene	
18400	000592-42-7	1,5-Hexadiene	
18430	000116-15-4	Hexafluorpropylene	
18490	015511-81-6	Hexamethylenediamine adipate	
18520	038775-37-0	Hexamethylenediamine azelate	
18550	038775-37-0	Hexamethylenediamine dodecanedicarboxylate	
18580	038775-37-0	Hexamethylenediamine heptadecanedicarboxylate	
18610	006422-99-7	Hexamethylenediamine sebacate	
18700	000629-11-8	1,6-Hexandiol	
18730	002935-44-6	2,5-Hexandiol	
18760	000106-69-4	1,2,6-Hexanetriol	
18790	025264-93-1	Hexene	
18820	000592-41-6	1-Hexene	
18850	000107-41-5	Hexyleneglycol	
18910	000288-32-4	Imidazole	
18940	000095-13-6	Indene	
18970	000078-83-1	Isobutanol	
19030	016669-59-3	N-(Isobutoxymethyl)acrylamide	
19060	000109-53-5	Isobutyl vinyl ether	
19090	000078-84-2	Isobutyraldehyde	
19120	025339-17-7	Isodecanol	
19140	026952-21-6	Isooctanol	
19150	000121-91-5	Isophthalic acid	
19180	000099-63-8	Isophthalic acid dichloride	
19210	001459-93-4	Isophthalic acid, dimethyl ester	
19240	000744-45-6	Isophthalic acid, diphenyl ester	
	000078-79-5	Isoprene	See '2-Methyl-1,3-butadiene'
19270	000097-65-4	Itaconic acid	
19300	002155-60-4	Itaconic acid, dibutyl ester	
19330	007748-43-8	Itaconic acid, 2,3-epoxypropyl diester	QM(T) = 5 mg/kg in FP (expressed as epoxy)
19360	007748-43-8	Itaconic acid, 2,3-epoxypropyl monoester	QM(T) = 5 mg/kg in FP (expressed as epoxy)

PM/REF- No.	CAS No	Name	Restrictions
(1)	(2)	(3)	(4)
19390	007748-43-8	Itaconic acid esters with alcohols, aliphatic, monohydric, saturated (C 1-C 18)	
19420	007748-43-8	Itaconic acid, esters with alcohols, polyhydric	
19450	007748-43-8	Lactams of omega-aminocarboxylic acids aliphatic, linear (C 7-C 12)	
19480	002146-71-6	Lauric acid, vinyl ester	
19570	000999-21-3	Maleic acid, diallyl ester	
19600	000105-76-0	Maleic acid, dibutyl ester	
19630	071550-61-3	Maleic acid, diester with 1,2-propanediol	
19660	000141-05-9	Maleic acid, diethyl ester	
19690	014234-82-3	Maleic acid, diisobutyl ester	
19720	001330-76-3	Maleic acid, diisooctyl ester	
19750	000624-48-6	Maleic acid, dimethyl ester	
19780	002915-53-9	Maleic acid, dioctyl ester	
19810	002915-53-9	Maleic acid, esters with alcohols, aliphatic, saturated (C 1-C 18)	
19840	002915-53-9	Maleic acid, esters with alcohols, polyhydric	
19870	002915-53-9	Maleic acid, ester with 1,3-butanediol	
19900	002424-58-0	Maleic acid, monoalyl ester	
19930	002424-58-0	Maleic acid, monoesters with alcohols, aliphatic, monohydric, unsaturated (C 3-C 18)	
19990	000079-39-0	Methacrylamide	
20050	000096-05-9	Methacrylic acid, allyl ester	
20080	002495-37-6	Methacrylic acid, benzyl ester	
20200	001888-94-4	Methacrylic acid, 2-chloroethyl ester	
20230	001888-94-4	Methacrylic acid, cyclohexylaminoethyl ester	
20260	000101-43-9	Methacrylic acid, cyclohexyl ester	
20290	016868-14-7	Methacrylic acid, cyclopentyl ester	
20320	003179-47-3	Methacrylic acid, decyl ester	
20350	003179-47-3	Methacrylic acid, (di-tert-butylamino)ethyl ester	
20380	001189-08-8	Methacrylic acid, diester with 1,3-butanediol	
20410	002082-81-7	Methacrylic acid, diester with 1,4-butanediol	
20440	000097-90-5	Methacrylic acid, diester with ethyleneglycol	
20470	025852-47-5	Methacrylic acid, diester with polyethyleneglycol	
20500	000105-16-8	Methacrylic acid, 2-(diethylamino)ethyl ester	
20530	002867-47-2	Methacrylic acid, 2-(dimethylamino)ethyl ester	
20560	000142-90-5	Methacrylic acid, dodecyl ester	
20590	000106-91-2	Methacrylic acid, 2,3-epoxypropyl ester	
20620	000106-91-2	Methacrylic acid, esters with alcohols, aliphatic, monohydric, saturated (C 1-C 21)	
20650	000106-91-2	Methacrylic acid, esters with alcohols, aliphatic, monohydric, unsaturated (C 4-C 18)	
20680	000106-91-2	Methacrylic acid, esters with alcohols, polyhydric (C 2-C 21)	
20710	000106-91-2	Methacrylic acid, esters with estheralcohols	
20740	039670-09-2	Methacrylic acid, ester with ethoxytriethyleneglycol	

QM(T) = mg/kg in FP
(expressed as epoxy)

PM/REF-No.	CAS No	Name	Restrictions
(1)	(2)	(3)	(4)
20770	039670-09-2	Methacrylic acid, esters with glycol-ethers obtained from mono- and/or diglycols with alcohols, aliphatic, monohydric (C 1-C 18)	
20800	024493-59-2	Methacrylic acid, ester with methoxy-triethyleneglycol	
20830	024493-59-2	Methacrylic acid, esters with 1,2-propanediol	
20860	024493-59-2	Methacrylic acid, ester with trimethyl-ethanolammonium chloride	
20920	000688-84-6	Methacrylic acid, 2-ethylhexyl ester	
20950	000923-26-2	Methacrylic acid, 2-hydroxypropyl ester	
20980	007534-94-3	Methacrylic acid, isobornyl ester	
21040	029964-84-9	Methacrylic acid, isodecyl ester	
21070	028675-80-1	Methacrylic acid, isooctyl ester	
21160	028675-80-1	Methacrylic acid, monoester with 1,3-butanediol	
21190	000868-77-9	Methacrylic acid, monoester with ethyleneglycol	
21220	032360-05-7	Methacrylic acid, octadecyl ester	
21250	002157-01-9	Methacrylic acid, n-octyl ester	
21280	002177-70-0	Methacrylic acid, phenyl ester	
21310	003683-12-3	Methacrylic acid, phenylethyl ester	
21370	010595-80-9	Methacrylic acid, 2-sulphoethyl ester	
21400	054276-35-6	Methacrylic acid, sulphopropyl ester	
21430	004245-37-8	Methacrylic acid, vinyl ester	
21520	001561-92-8	Methallylsulphonic acid, sodium salt	QM = 5 mg/kg in FP
21580	003644-11-9	N-(Methoxymethyl)acrylamide	
21610	003644-12-0	N-(Methoxymethyl)methacrylamide	
21640	000078-79-5	2-Methyl-1,3-butadiene	
21670	000563-46-2	2-Methyl-1-butene	
21700	000513-35-9	2-Methyl-2-butene	
21730	000563-45-1	3-Methyl-1-butene	
21760	000694-91-7	5-Methylenebicyclo[2.2.1]hept-2-ene	
21790	000110-26-9	Methylenebisacrylamide	
21820	013093-19-1	Methylenebiscaprolactam	
	000505-65-7	1,4-(Methylenedioxy)butane	See '1,4-Butanediol formal'
21850	000095-71-6	Methylhydroquinone	
21880	000717-27-1	Methylhydroquinone diacetate	
21910	000814-78-8	Methyl isopropenyl ketone	
21940	000924-42-5	N-Methylolacrylamide	
21970	000923-02-4	N-Methylolmethacrylamide	
22000	001118-58-7	2-Methyl-1,3-pentadiene	
22030	001115-08-8	3-Methyl-1,4-pentadiene	
22060	000926-56-7	4-Methyl-1,3-pentadiene	
22090	000763-29-1	2-Methyl-1-pentene	
22120	000760-20-3	3-Methyl-1-pentene	
22180	004461-48-7	4-Methyl-2-pentene	
22210	000098-83-9	alpha-Methylstyrene	
22240	000622-97-9	p-Methylstyrene	
22270	000107-25-5	Methyl vinyl ether	
22300	000078-94-4	Methyl vinyl ketone	QM = 5 mg/kg in FP
22330	001822-74-8	Methyl vinyl thioether	
22360	001141-38-4	2,6-Naphthalenendicarboxylic acid	
	000126-30-7	Neopentylglycol	See '2,2-Dimethyl-1,3-propanediol'
22510	027215-95-8	Nonene	

PM/REF- No.	CAS No	Name	Restrictions
(1)	(2)	(3)	(4)
22540	000104-40-5	4-Nonylphenol	See 'Bicyclo[2.2.1]hept-2-ene'
	000498-66-8	Norbornene	
22580	000930-02-9	Octadecyl vinyl ether	
22630	025377-83-7	Octene (except 1-octene)	
22690	001806-26-4	4-Octylphenol	
22720	000140-66-9	4-tert-Octylphenol	
22750	000929-62-4	Octyl vinyl ether	
22810	000504-60-9	1,3-Pentadiene	
22900	000109-67-1	1-Pentene	
22930	000109-67-1	Perfluoroalkyl(C 1-C 3)vinyl ethers	
22990	000109-67-1	Phenols, mono- and dihydric, alkoxy- lated or hydrogenated	See 'Iso- or o-phthalic acid'
23020	028994-41-4	alpha-Phenyl-o-cresol	
23080	001079-21-6	Phenylhydroquinone	
23110	058244-28-3	Phenylhydroquinone diacetate	
23140	000092-69-3	4-Phenylphenol	
	000092-69-3	Phthalic acids	
23200	000088-99-3	o-Phthalic acid	
23230	000131-17-9	Phthalic acid, diallyl ester	
23260	000088-95-9	o-Phthalic acid dichloride	
23290	000088-95-9	Phthalic acids, halogenated derivatives	
23320	000088-95-9	Phthalic acids, hydrogenated	
23350	000088-95-9	Phthalic acids, hydrogenated substi- tuted, endosubstituted, and their halo- genated derivatives	
23410	000088-95-9	Phthalic anhydride, hydrogenated	
23440	000111-16-0	Pimelic acid	
23530	025190-06-1	Poly(1,4-butyleneglycol) (molecular weight greater than 1 000)	
23560	025190-06-1	Polyethers based on ethylene oxide, propylene oxide and/or tetrahydro- furan, containing free hydroxyl groups	
23620	025190-06-1	Polyols derived from phenols and bisphenols, hydrogenated and/or condensed with epoxyalkanes and/or arylepoxyalkanes possibly haloge- nated, alkoxyated, aryloxyated	
23680	009002-89-5	Polyvinylalcohols	
23710	063148-65-2	Polyvinylbutyrals	
23770	000504-63-2	1,3-Propanediol	
23920	000105-38-4	Propionic acid, vinyl ester	
24040	000764-47-6	Propyl vinyl ether	
24220	009006-03-5	Rubber, chlorinated	
24310	000111-19-3	Sebacic acid dichloride	
24340	002432-89-5	Sebacic acid, didecyl ester	
24370	000106-79-6	Sebacic acid, dimethyl ester	
24400	002918-18-5	Sebacic acid, diphenyl ester	
24430	002561-88-8	Sebacic anhydride	
24640	002561-88-8	Styrene, substituted by alkyl groups (alpha)	
24670	002561-88-8	Styrene, substituted in the benzene ring	
24700	002561-88-8	Styrene, substituted by halogens (alpha or beta)	
24730	002561-88-8	Styrene, substituted in the vinyl group	

PM/REF-No.	CAS No	Name	Restrictions
(1)	(2)	(3)	(4)
24760	026914-43-2	Styrenesulphonic acid	
24790	000505-48-6	Suberic acid	
24850	000108-30-5	Succinic anhydride	
24940	000100-20-9	Terephthalic acid dichloride	
25000	001539-04-4	Terephthalic acid, diphenyl ester	
25030	016646-44-9	Tetra(allyloxy)ethane	
25060	000632-58-6	Tetrachlorophthalic acid	
25120	000116-14-3	Tetrafluorethylene	
25300	000088-19-7	<i>o</i> -Toluenesulphonamide	
25330	000070-55-3	<i>p</i> -Toluenesulphonamide	
25390	000101-37-1	Triallyl cyanurate	
25450	026896-48-0	Tricyclodecanedimethanol	
25480	000102-71-6	Triethanolamine	
25540	000528-44-9	Trimellitic acid	QM(T) = 5 mg/kg in FP
25550	000552-30-7	Trimellitic anhydride	QM(T) = 5 mg/kg in FP (expressed as trimellitic acid)
25570	000067-48-1	Trimethylethanolammonium chloride	
25630	037275-47-1	1,1,1-Trimethylolpropane diacrylate	
25660	019727-16-3	1,1,1-Trimethylolpropane dimethacrylate	
25690	019727-16-3	1,1,1-Trimethylolpropane maleates	
25720	007024-08-0	1,1,1-Trimethylolpropane monoacrylate	
25750	007024-09-1	1,1,1-Trimethylolpropane monomethacrylate	
25780	025723-16-4	1,1,1-Trimethylolpropane, propoxy-lated	
25810	015625-89-5	1,1,1-Trimethylolpropane triacrylate	
25840	003290-92-4	1,1,1-Trimethylolpropane trimethacrylate	
25870	000107-39-1	2,4,4-Trimethyl-1-pentene	
25900	000110-88-3	Trioxane	
	000102-71-6	Tris(2-hydroxyethyl)amine	See 'Triethanolamine'
25930	001067-53-4	Tris(2-methoxyethoxy)vinylsilane	QM = 5 mg/kg in FP
25990	000689-97-4	Vinylacetylene	QM = 5 mg/kg in FP
26020	001484-13-5	N-Vinylcarbazole	QM = 5 mg/kg in FP
26080	001484-13-5	Vinyl ethers of alcohols, aliphatic, monohydric, saturated (C 2-C 18)	
26140	000075-38-7	Vinylidene fluoride	
26170	003195-78-6	N-Vinyl-N-methylacetamide	QM = 5 mg/kg in FP
26200	002867-48-3	N-Vinyl-N-methylformamide	
26230	000088-12-0	Vinylpyrrolidone	
26260	001184-84-5	Vinylsulphonic acid	
26290	025013-15-4	Vinyltoluene	
	000622-97-9	<i>p</i> -Vinyltoluene	See ' <i>p</i> -Methylstyrene'
26320	002768-02-7	Vinyltrimethoxysilane	QM = 5 mg/kg in FP
	000105-67-9	<i>m</i> -Xylenol	See '2,4-Dimethylphenol'
	000526-75-0	<i>o</i> -Xylenol	See '2,3-Dimethylphenol'
	000095-87-4	<i>p</i> -Xylenol	See '2,5-Dimethylphenol'