

Commission Directive 90/128/EEC of 23 February 1990 relating to plastic materials and articles intended to come into contact with foodstuffs

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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;

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.

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.

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:

$$1.2.3 M = m \cdot a_2 / a_1 \cdot q \cdot 1\,000$$

Where:

1.2 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 (M1). 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 (M2 and M3, respectively).

The material or article shall be deemed to be in compliance provided that either M1 or M3-M2 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 Eines 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:

1.2 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

1.2.3.4 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)propane-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 'Dipropylenglycol' 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 Dipropylenglycol 16750 000106-89-8 Epichlorhydrin 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 diisocyanat 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-
Dihydroxybenzen' 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)ethylendiamine
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

1.2.3.4 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 p-(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 glycolethers 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, isoctyl 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 p-Alkyl(C 4-C 9) phenols 12610 000107-18-6 Allyl alcohol 12640 000106-92-3 Allyl 2,3-epoxypropyl ether QM(T) = 5 mg/kg in FP (expressed as epoxy) 12670 002855-13-2 1-Amino-3-aminomethyl-3,5,5-trimethylcyclohexane 12700 000150-13-0 p-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 p-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 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 See 'Trimellitic 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 000080-09-1 Bisphenol S See '4,4-Dihydroxydiphenyl- sulphone' 13660 000584-03-2 1,2-Butanediol 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 QM(T) + 5 mg/kg in FP (expressed as epoxy) 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 Castor oil, hydrogenated 000115-28-6 Chlorendic acid See 'Hexachloroendomethylenete-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 Chlorotrifluoroethylene 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 p-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)methacrylamide 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 /
1.2.3.4 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 QM(T) = mg/kg in FP (expressed as epoxy) 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 PM/REF- No. CAS No Name Restrictions (1) (2) (3) (4) 20770 039670-09-2 Methacrylic acid, esters with glycolethers obtained from mono- and/or diglycols with alcohols, aliphatic, monohydric (C 1-C 18) 20800 024493-59-2 Methacrylic acid, ester with methoxytriethyleneglycol 20830 024493-59-2 Methacrylic acid, esters with 1,2-propanediol 20860 024493-59-2 Methacrylic acid, ester with trimethylethanolammonium 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 000498-66-8 Norbornene See 'Bicyclo[2.2.1]hept-2-ene' 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, alkoxyated or hydrogenated 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 See 'Iso- or o-phthalic acid' 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 substituted, endosubstituted, and their halogenated derivatives 23410 000088-95-9 Phthalic anhydride, hydrogenated 23440 000111-16-0 Pimelic acid 23530 025190-06-1 Poly(1,4-butylene glycol)

(molecular weight greater than 1 000) 23560 025190-06-1 Polyethers based on ethylene oxide, propylene oxide and/or tetrahydrofuran, containing free hydroxyl groups 23620 025190-06-1 Polyols derived from phenols and bisphenols, hydrogenated and/or condensed with epoxyalkanes and/or aryloxyalkanes possibly halogenated, 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 o-Toluenesulphonamide 25330 000070-55-3 p-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, propoxylated 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 p-Vinyltoluene See 'p-Methylstyrene' 26320 002768-02-7 Vinyltrimethoxysilane QM = 5 mg/kg in FP 000105-67-9 m-Xylenol See '2,4-Dimethylphenol' 000526-75-0 o-Xylenol See '2,3-Dimethylphenol' 000095-87-4 p-Xylenol See '2,5-Dimethylphenol'

SML = 2,4 mg/kg
18640
000822-06-0
Hexamethylene diisocyanat
QM(T) = 1 mg/kg in EP (expressed as NCO)
18670
000100-97-0
Hexamethylenetetramine
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-Dihydroxybenzen'

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

1.2.3.4PM/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

p-(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 glycolethers 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

p-Alkyl(C 4-C 9) phenols

12610

000107-18-6

Allyl alcohol

12640

000106-92-3

Allyl 2,3-epoxypropyl ether

QM(T) = 5 mg/kg in FP (expressed as epoxy)

12670

002855-13-2

1-Amino-3-aminomethyl-3,5,5-trimethylcyclohexane

12700

000150-13-0

p-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
p-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
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
See "Trimellitic 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
000080-09-1
Bisphenol S
See "4,4-Dihydroxydiphenyl - sulphone"
13660
000584-03-2
1,2-Butanediol
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
QM(T) + 5 mg/kg in FP (expressed as epoxy)
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
Castor oil, hydrogenated
000115-28-6
Chlorendic acid
See "Hexachloroendomethylenete-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
p-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-methylolmetha - crylamide
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

1.2.3.4PM/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-Heptylaminoundecanoic 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
QM(T) = mg/kg in FP (expressed as epoxy)

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
PM/REF - No .
CAS No
Name
Restrictions
(1)
(2)
(3)
(4)
20770
039670-09-2
Methacrylic acid, esters with glycolethers obtained from mono - and/or diglycols with alcohols,
aliphatic, monohydric (C 1-C 18)
20800
024493-59-2
Methacrylic acid, ester with methoxytriethyleneglycol
20830
024493-59-2
Methacrylic acid, esters with 1,2-propanediol
20860
024493-59-2
Methacrylic acid, ester with trimethylethanolammonium 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
000498-66-8
Norbornene
See "Bicyclo(2.2.1)hept-2-ene'
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, alkoxyated or hydrogenated
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
See "Iso - or o-phthalic acid'
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 substituted, endosubstituted, and their halogenated 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 tetrahydrofuran, containing free hydroxyl groups

23620

025190-06-1

Polyols derived from phenols and bisphenols, hydrogenated and/or condensed with epoxyalkanes and/or arylepoxyalkanes possibly halogenated, 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

Tetrafluoroethylene

25300

000088-19-7

o-Toluenesulphonamide

25330

000070-55-3

p-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, propoxylated
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

p-Vinyltoluene

See 'p-Methylstyrene'

26320

002768-02-7

Vinyltrimethoxysilane

QM = 5 mg/kg in FP

000105-67-9

m-Xylenol

See '2,4-Dimethylphenol'

000526-75-0

o-Xylenol

See '2,3-Dimethylphenol'

000095-87-4

p-Xylenol

See '2,5-Dimethylphenol'