### MERCOSUR/GMC/RES. No. 02/12

## MERCOSUR TECHNICAL REGULATION ON POSITIVE LIST OF MONOMERS, OTHER STARTING SUBSTANCES AND POLYMERS AUTHORIZED FOR THE MANUFACTURE OF FOOD-CONTACT PLASTIC PACKAGING AND EQUIPMENT (REPEAL OF GMC RES. Nos. 47/93, 86/93, 13/97, 14/97 and 24/04)

**HAVING SEEN**: The Treaty of Asunción, the Protocol of Ouro Preto and Resolutions Nos. 56/92, 47/93, 86/93, 13/97, 14/97, 38/98, 56/02 and 24/04 of the Common Market Group.

### WHEREAS:

The States Parties agreed to update the Positive List of Polymers and Resins for Food-Contact Plastic Packaging and Equipment.

The aforementioned updating is based on the safety assessment for the use of monomers, other starting substances and polymers authorized for the manufacture of food-contact plastic packaging and equipment and will contribute to the insertion of the products of the States Parties within the framework of international trade.

The harmonization of Technical Regulations tends to remove trade barriers created by the different national regulations in force, complying with the provisions set forth under the Treaty of Asunción.

## THE COMMON MARKET GROUP RESOLVES:

Article 1 - To approve the "MERCOSUR Technical Regulation on Positive List of Monomers, Other Starting Substances and Polymers Authorized for the Manufacture of Food-Contact Plastic Packaging and Equipment" which is included as an Annex and is part of this Resolution.

Article 2 - The national agencies authorized to implement this Resolution are:

Argentina: Ministerio de Salud (Ministry of Health)

Secretaría de Políticas, Regulación e Institutos (Secretariat of Policies, Regulations and Institutes or SPReI, as per its acronym in Spanish)

Administración Nacional de Medicamentos, Alimentos y Tecnología Médica (National Drug, Food and Medical Technology Administration or ANMAT, as per its acronym in Spanish) Ministerio de Agricultura, Ganadería y Pesca (Ministry of Agriculture, Livestock and Fisheries or MAGyP, as per its acronym in Spanish) Secretaría de Agricultura, Ganadería y Pesca (Secretariat of Agriculture, Livestock and Fisheries or SAGyP, as per its acronym in Spanish)

Brazil: Ministerio da Saude Agencia Nacional de Vigilância Sanitária (ANVISA)

Paraguay: Ministerio de Salud Pública y Bienestar Social (Ministry of Public Health and Social Welfare or MSPyBS, as per its acronym in Spanish)
Instituto Nacional de Alimentación y Nutrición (National Institute of Food and Nutrition or INAN, as per its acronym in Spanish)
Ministerio de Industria y Comercio (Ministry of Industry and Commerce or MIC, as per its acronym in Spanish)
Instituto Nacional de Tecnología, Normalización y Metrología (National Institute of Technology, Standardization and Metrology or INTN, as per its acronym in Spanish)

Uruguay: Ministerio de Salud Pública (Ministry of Public Health or MSP, as Per its acronym in Spanish) Ministerio de Industria, Energía y Minería (Ministry of Industry, Energy and Mining or MIEM, as per its acronym in Spanish) Laboratorio Tecnológico del Uruguay (Technological Laboratory of Uruguay or LATU, as per its acronym in Spanish)

Article 3 - This Resolution shall be applicable in the territory of the States Parties, to trade among them and to extra-zone imports.

Article 4 - To repeal GMC Resolutions No. 47/93, 86/93, 13/97, 14/97 and 24/04.

Article 5 - This Resolution shall be incorporated into the body of laws of the States Parties before XI/01/2012.

## LXXXVII GMC - Buenos Aires, IV/19/12

### ANNEX

## MERCOSUR TECHNICAL REGULATION ON POSITIVE LIST OF MONOMERS, OTHER STARTING SUBSTANCES AND POLYMERS AUTHORIZED FOR THE MANUFACTURE OF FOOD-CONTACT PLASTIC PACKAGING AND EQUIPMENT

1. This Technical Regulation contains the list of monomers, other starting substances and polymers authorized for the manufacture of food-contact plastic packaging and equipment, together with usage restrictions, composition limits and specific migration limits. It also applies to polymer coatings directly in contact with food, applied to other material substrates.

- 2. This Regulation consists of the following parts:
- PART I: Positive list of monomers and other starting substances with usage restrictions, composition limits and specific migration limits
- PART II: Products obtained by means of bacterial fermentation
- PART III: General Specifications
- PART IV: Notes which appear on column "RESTRICTIONS AND/OR SPECIFICATIONS"
- PART V: List of polymers obtained from monomers listed in PART I and/or polymers included in PART II and/or other polymers included in this part.

3. The positive list of monomers, polymers and other starting substances includes:

- Substances intended to be subjected to polymerization reactions such as polycondensation, polyaddition or any other similar process, to produce macromolecules of plastic materials;
- Natural or synthetic polymers used in the manufacture of modified macromolecules, as long as the monomers and the other starting substances necessary for the synthesis of the former are not included in the list;

Substances used to modify already-existing natural or synthetic macromolecular compounds;

4. The substances mentioned below are not included in this positive list; however, they are authorized:

a) Aluminum, ammonium, barium, calcium, zinc, cobalt, copper, iron, lithium, magnesium, manganese, potassium and sodium salts (including double salts and acid salts) of authorized acids, phenols or alcohols; the substances included in the list whose name contains the term "... acid salts" are authorized, however the corresponding free acid is not mentioned. In such cases, the meaning of the term "salts" is "aluminum, ammonium, barium, calcium, zinc, cobalt, copper, iron, lithium, magnesium, manganese, potassium and sodium salts."

b) Zinc (Zn) salts (including double salts and acid salts) of the authorized acids, phenols or alcohols. For these salts a group specific migration limit SML(T) = 25 mg/kg (expressed as zinc) applies. The restriction applicable to zinc also applies to:

i) substances whose name contains the term "... acid salts", however the corresponding free acid is not mentioned,ii) substances mentioned in note (23), PART IV, of this Regulation.

c) Lithium (Li) salts (including double salts and acid salts) of the authorized acids, phenols or alcohols. For these salts a group specific migration limit SML(T) = 0.6 mg/kg (expressed as lithium) applies. The restriction applicable to lithium also applies to:

i) substances whose name contains the term "... acid salts", however the corresponding free acid is not mentioned,

ii) substances mentioned in note (24), PART IV, of this Regulation.

5. The positive list does not include either the following substances that may be found in the finished product:

a) Residual substances:

- Impurities in the substances used,

- Reaction intermediate products,
- Decomposition products.

b) Oligomers and natural or synthetic macromolecular substances, as well as their mixtures, if the monomers and/or starting substances necessary to synthesize them are already included in the list.

c) Mixtures of authorized substances.

6. Substances used in the manufacture of plastic materials shall meet purity criteria consistent with their use.

7. The verification of the compliance with specific migration limits and composition limits shall be performed by means of the different methods described under the EN Standard Series 13130 or by means of instrumental analytical techniques with adequate sensitivity (e.g. atomic absorption or emission spectrometry, gas chromatography, high performance liquid chromatography, etc.).

- 7.1 When in regard to a substance a composition limit (CL) and a specific migration limit (SML) is set forth, the conformity of the plastic material may be verified with just one limit.
- 7.2 When in regard to a group of substances a group composition limit (CL(T)) and a group specific migration limit (SML(T)) is set forth, the conformity of the plastic material may be verified with just one limit.
- 7.3 In the case that there is a discrepancy between two parties, the conformity of the plastic material shall be verified with both limits.

8. If a substance which is listed on the positive list as an isolated compound is also included under a generic name, the restrictions applicable to this substance shall be those corresponding to the isolated compound.

9. In the event of disagreement between the CAS (Chemical Abstract Service) number of the CAS registry and the chemical name, the latter shall prevail over the former. If there is discrepancy between the CAS number of the EINECS (European Inventory of Existing Commercial Substances) and the CAS registry number, the CAS registry number shall be applied.

10. Criteria for inclusion and exclusion of substances in/from the positive list.

- 10.1. The list of substances may be modified:
  - 10.1.1 To include new components, when there is evidence that they

do not to pose a significant risk to human health and the technological need for their use is justified.

- 10.1.2 To modify components restrictions, when new technicalscientific knowledge justifies so.
- 10.1.3 To exclude components, when new technical-scientific knowledge indicates a significant risk to human health.
- 10.1.4 In order to include or exclude components, as well as to modify restrictions, the positive lists of the European Union Directives and Regulations or, subsidiarily, the positive lists of the Food and Drug Administration-FDA (Title 21 of the Code of Federal Regulations) shall be used as reference. As an exception, the positive lists of other duly recognized legislations may be considered. In the event of inclusion of new components, the usage restrictions and the composition limits and specific migration limits set forth in the reference legislation shall be complied with.

11. For the purposes of this Regulation, the following terms shall mean:

**CL**: Composition limit (maximum allowable residual quantity) of the substance in the finished material or article.

**CL(T)**: Group composition limit (maximum allowable residual quantity), expressed as a total of the indicated group or substances in the finished material or article.

**DL**: Detection limit of the method for analysis.

**SML**: Specific migration limit (maximum allowable transferred quantity) in foods or their simulants.

**SML(T)**:Group specific migration limit (maximum allowable transferred quantity) in food or their simulants, expressed as the total of the indicated groups or substances.

ND: Not detectable.

**CAS NUMBER**: The substance's CAS (Chemical Abstracts Service) registry number.

**DH**. This means that the substance does not have a CAS registry number. **FP**: Finished material or article.

# PART I

# LIST OF AUTHORIZED MONOMERS AND OTHER STARTING SUBSTANCES.

The authorized polymers correspond to those obtained from the monomers listed in PART I and/or the polymers listed in PART II and/or in PART V. The substances are not listed in alphabetical order, but in the increasing order of the reference number

REFERENCE	CAS NUMBER	SUBSTANCE	RESTRICTIONS AND/OR SPECIFICATIONS
NUMBER			
10030	000514-10-3	Abietic acid	No restrictions.
10060	000075-07-0	Acetaldehyde	SML(T) = 6 mg/kg (expressed as acetaldehyde)
			(1)
10090	000064-19-7	Acetic acid	No restrictions.

10120	000108-05-4	Vinyl acetate (= acetic acid, vinyl ester)	1) In the case of the ethylene vinyl acetate copolymer (EVA), SML = 12 mg/kg
			<ol><li>If it is used as a precursor-monomer in the production of hydrophilic polymers, namely:</li></ol>
			-Homopolymers: poly(vinyl alcohol), poly(vinyl acetate);
			-Copolymers: EVOH (ethylene-vinyl alcohol copolymer) and copolymers with poly(vinyl alcohol) as one of the constituents;
			The following restrictions apply: - SML = 12 mg/kg

			- Not authorized for direct contact with aqueous
			food.
10150	000108-24-7	Acetic anhydride	No restrictions.
10210	000074-86-2	Acetylene	No restrictions.
10599/90A	061788-89-4	Distilled dimers of unsaturated fatty acids (C18)	SML(T) = 0.05 mg/kg (2)
10599/91	061788-89-4	Non-distilled dimers of unsaturated fatty acids (C18)	SML(T) = 0.05 mg/kg (2)
10599/92A	068783-41-5	Hydrogenated distilled dimers of unsaturated fatty acids (C18)	SML(T) = 0.05 mg/kg (2)
10599/93	068783-41-5	Hydrogenated non-distilled dimers of unsaturated fatty acids (C18)	SML(T) = 0.05 mg/kg (2)
10630	000079-06-1	Acrylamide	SML = ND (DL = 0.01 mg/kg)
10660	015214-89-8	2-acrylamido-2-methylpropanesulfonic acid	SML = 0.05 mg/kg
10690	000079-10-7	Acrylic acid	SML(T) = 6 mg/kg (expressed as acrylic acid) (3)
10750	002495-35-4	Benzyl acrylate	SML(T) = 6 mg/kg (expressed as acrylic acid) (3)
10780	000141-32-2	N-butyl acrylate	SML(T) = 6 mg/kg (expressed as acrylic acid) (3)
10810	002998-08-5	Sec-butyl acrylate	SML(T) = 6 mg/kg (expressed as acrylic acid) (3)
10840	001663-39-4	Tert-butyl acrylate	SML(T) = 6 mg/kg (expressed as acrylic acid) (3)
11005	012542-30-2	Dicyclopentenyl acrylate	SML = 0.05 mg/kg
11245	002156-97-0	Dodecyl acrylate	SML = 0.05 mg/kg (4)
11470	000140-88-5	Ethyl acrylate	SML(T) = 6 mg/kg (expressed as acrylic acid) (3)
11500	000103-11-7	2-ethylhexyl acrylate	SML = 0.05 mg/kg

11530	00999-61-1	2-hydroxypropyl acrylate	SML = 0.05 mg/kg for the sum of 2- hydroxypropyl acrylate and 2-hydroxy isopropyl acrylate and according to the specifications set out in Part III.
11590	000106-63-8	Isobutyl acrylate	SML(T) = 6 mg/kg (expressed as acrylic acid) (3)
11680	000689-12-3	Isopropyl acrylate	SML(T) = 6 mg/kg (expressed as acrylic acid) (3)
11710	000096-33-3	Methyl acrylate	SML(T) = 6 mg/kg (expressed as acrylic acid) (3)
11830	000818-61-1	Ethylene glycol monoacrylate (=Hydroxyethyl acrylate)	SML(T) = 6 mg/kg (expressed as acrylic acid) (3)
11510	000400 50 4		
11890	002499-59-4		SML(T) = 6 mg/kg (expressed as acrylic acid) (3)
11980	000925-60-0	Propyl acrylate	SML(T) = 6 mg/kg (expressed as acrylic acid) (3)
12100	000107-13-1	Acrylonitrile	SML = ND (DL = 0.01 mg/kg)
12130	000124-04-9	Adipic acid	No restrictions.
12265	004074-90-2	Divinyl adipate	CL = 5 mg/kg in FP or SML = ND (DL = 0.01 mg/kg) Only for comonomer use
12280	002035-75-8	Adipic anhydride	No restrictions.
12310	266309-43-7	Albumin	No restrictions.
12340	DH	Albumin coagulated by formaldehyde	No restrictions.
12375	DH	Aliphatic saturated linear primary monoalcohols (C4 - C22)	No restrictions.

12670	002855-13-2	1-Amino-3-aminomethyl-3,5,5-	SML = 6 mg/kg
		trimethylcyclohexane	
12761	000693-57-2	12-aminododecanoic acid	SML = 0.05 mg/kg

12763	000141-43-5	2-Aminoethanol	SML = 0.05 mg/kg. Only for multilayer structures in contact with non-fatty foods. The layer in which this substance is used must be separated from the food
			by a layer of PET.
12765	084434-12-8	Sodium N-(2-aminoethyl)-beta-alaninate	SML = 0.05 mg/kg
12786	000919-30-2	3-Aminopropyltriethoxysilane	The extractable residual content of 3- aminopropyltriethoxysilane must be less than 3 mg/kg of filler when used for the reactive surface treatment of inorganic fillers and SML = 0.05 mg/kg when used for surface treatment of materials and articles.
12788	002432-99-7	11-aminoundecanoic acid	SML = 5 mg/kg
12789	007664-41-7	Ammonia	No restrictions.
12820	000123-99-9	Azelaic acid	No restrictions.
12970	004196-95-6	Azelaic anhydride	No restrictions.
13000	001477-55-0	1,3-Benzenedimethanamine (= meta-xylylenediamine)	SML = 0.05 mg/kg
13060	004422-95-1	1,3,5-benzenetricarboxylic acid trichloride	SML = 0.05 mg/kg (determined as 1,3,5- benzenetricarboxylic acid).
13090	000065-85-0	Benzoic acid	No restrictions.
13150	000100-51-6	Benzyl alcohol	No restrictions.
13180	000498-66-8	Bicyclo[2.2.1]hept-2-ene (= norbornene)	SML = 0.05 mg/kg
22550			
13210	001761-71-3	Bis(4-aminocyclohexyl)methane	SML = 0.05 mg/kg

13317	132459-54-2	N,N'-Bis [4-(ethoxycarbonyl)phenyl]-1,4,5,8-	SML = 0.05 mg/kg. Purity > 98.1% (w/w). It must
		naphthalenetetracarboxydimide	be used only as co-monomer (maximum 4%) for
			polyesters (PET, PBT).
13323	000102-40-9	1,3-Bis(2-hydroxyethoxy)benzene	SML = 0.05 mg/kg
13390	000105-08-8	1,4-Bis(hydroxymethyl)cyclohexane (=1,4-	No restrictions.
14880		Cyclohexanedimethanol)	
13395	004767-03-7	2,2-bis(hydroxymethyl)propionic acid	SML = 0.05 mg/kg
13480	000080-05-7	2,2-bis(4-hydroxyphenyl)propane (= bisphenol A) (=4,4'-	SML(T) = 0.6 mg/kg (5)
13607		isopropylidenediphenol) (=4,4'-(1 -	
		methylethylidene)bisphenol)	Not authorized for polymers used in the
			manufacture of baby bottles or other similar articles
			intended for infants (children up to twelve months
			old) feeding.

13510	001675-54-3	2,2-Bis(4-hydroxyphenyl)propane bis (2,3- epoxypropyl)	The sum of the specific migrations values o
13610		ether (= BADGE)	BADGE, BADGE.H2O (CAS 076002-91-0) and
		(= bisphenol A diglycidyl ether)	BADGE.2H <sub>2</sub> O (CAS 005581-32-8) must not exceed
		(= bisphenol A bis(2,3-epoxypropylic) ether	the following limits:
			- SML(T) = 9 mg/kg
			The sum of the specific migrations values of
			BADGE.HCI (CAS 013836-48-1), BADGE.2 HCI
			(CAS 004809-35-2) and BADGE.H <sub>2</sub> O.HCI (CAS
			227947-06-0) must not exceed the following limits:
			- SML(T) = 1 mg/kg
			The specific migrations restrictions of BADGE and
			derivatives do not apply to containers the capacity
			of which is over 10000 I nor to pipelines integrated
			into or connected with them.
13530	038103-06-9	Bis(phthalic anhydride) of 2,2-bis (4-	SML = 0.05 mg/kg
13614		hydroxyphenyl)propane	
		(= bisphenol A bis (phthalic anhydride) obisphenol A)	
13600	047465-97-4	3,3-Bis(3-methyl-4-hydroxyphenyl)2-indolinone	SML = 1.8 mg/kg
13620	010043-35-3	Boric acid	SML(T) = 6 mg/kg (expressed as boron) (6),
			notwithstanding the provisions in the requisites
			regarding the quality of water intended for human
			consumption
13630	000106-99-0	Butadiene	CL = 1 mg/kg in FP or SML = ND (DL = 0.01 mg/kg)
13690	000107-88-0	1.3-Butanediol (= butylene glycol)	No restrictions.

13720	000110-63-4	1,4-Butanediol	SML(T) = 5 mg/kg (expressed as 1,4- butanediol)
			(7)
13780	002425-79-8	1,4-Butanediol bis(2,3-epoxypropyl)ether	CL = 1 mg/kg in FP (expressed as epoxy group) or
			SML = ND (DL = 0.01 mg/kg). Molecular weight =
			43 Da
13810	000505-65-7	1,4-Butanediol formal	SML = ND (DL = 0.01 mg/kg)
21821		(=1,4-(Methylenedioxy)butane)	
13840	000071-36-3	1-Butanol	No restrictions.
13870	000106-98-9	1-Butene	No restrictions.
13900	000107-01-7	2-Butene	No restrictions.
13932	000598-32-3	3-Buten-2-ol	SML = ND (DL = 0.01 mg/kg) Only to be used as
			comonomer in the preparation of polymeric
			additives.
14020	000098-54-4	4-tert-Butylphenol	SML = 0.05 mg/kg.
14110	000123-72-8	Butyraldehyde	No restrictions.
14140	000107-92-6	Butyric acid	No restrictions.
14170	000106-31-0	Butyric anhydride	No restrictions.
14200	000105-60-2	Caprolactam	SML(T) = 15 mg/kg (expressed as caprolactam) (8)
14230	002123-24-2	Caprolactam, sodium salt	SML(T) = 15 mg/kg (expressed as caprolactam) (8)
14000	000500 44 0		OM(T) = 0.05 mm/lm (0)
14260	000502-44-3	Caprolactone	SML(T) = 0.05  mg/kg(9)
		(= 2-oxepanone)	
		(=6-hexanolactone)	
1 1000	000404.07.0	(=ɛ-caprolactone)	
14320	000124-07-2		No restrictions.
14350	000630-08-0	Carbon monoxide	No restrictions.
14380	000075-44-5	Carbonyl chloride (= phosgene)	CL = 1  mg/kg in FP
23155			

14411	008001-79-4	Castor oil	No restrictions.
14500	009004-34-6	Cellulose	No restrictions.
14530	007782-50-5	Chlorine	No restrictions.
14627	000117-21-5	3-chlorophthalic anhydride	SML = 0.05 mg/kg (expressed as 3- chlorophthalic acid).
14628	000118-45-6	4-chlorophthalic anhydride	SML = 0.05 mg/kg (expressed as 4- chlorophthalic acid).
14650	000079-38-9	Chlorotrifluoroethylene	SML = ND (DL = 0.01 mg/kg).
14680	000077-92-9	Citric acid	No restrictions.
14710	000108-39-4	m-Cresol	No restrictions.
14740	000095-48-7	o-Cresol	No restrictions.
14770	000106-44-5	p-Cresol	No restrictions.
14800	003724-65-0	Crotonic acid	SML = 0.05 mg/kg (10)
14841	000599-64-4	4-Cumylphenol	SML = 0.05 mg/kg
14876	001076-97-7	1,4-Cyclohexanedicarboxylic acid	SML = 5 mg/kg. To be used only in the production of polyesters.
14950	003173-53-3	Cyclohexyl isocyanate	CL(T) = 1 mg/kg in FP or SML(T) = ND (DL = 0.01 mg/kg) (expressed as isocyanate group) (11)
15030	000931-88-4	Cyclooctene	SML = 0.05 mg/kg. To be used only in food-contact polymers for which simulant A is established, as defined in the specific Mercosur Technical Regulation.
15070	001647-16-1	1,9-Decadiene	SML = 0.05 mg/kg
15095	000334-48-5	N-decanoic acid	No restrictions.
15100	000112-30-1	1-Decanol	No restrictions.

15130	000872-05-9	1-Decene	SML = 0.05 mg/kg
15180	0018085-02-4	3,4-Diacetoxy-1-butene	SML = 0.05 mg/kg.
			The product of hydrolysis 3,4-dihydroxy-1-butene is
			included in this SML.
			To be used only as a comonomer in ethylene vinyl
			alcohol copolymers.
15250	000110-60-1	1,4-Diaminobutane	No restrictions.
15267	000080-08-0	4,4'-Diaminodiphenylsulfone	SML = 5 mg/kg
15310	000091-76-9	2,4-Diamino-6-phenyl-1,3,5-triazine	SML = 5 mg/kg
13075		(=Benzoguanamine)	
15404	000652-67-5	1,4:3,6-dianhydrosorbitol	SML = 5 mg/kg. To be used only as a comonomer in
			the poly(ethylene co- isosorbide) terephthalate.
15565	000106-46-7	1,4-Dichlorobenzene	SML = 12 mg/kg
15610	000080-07-9	4,4'-Dichlorodiphenyl sulfone	SML = 0.05 mg/kg
		(= 1.1'-sulfonylbis(4-chlorobenzene))	
15700	005124-30-1	4,4'-Dicyclohexylmethane diisocyanate (=Bis(4-	CL(T) = 1  mg/kg in FP or SML(T) = ND (DL = 0.01)
13560		isocyanatocyclohexyl)methane)	mg/kg) (expressed as isocyanate group) (11)
15760	000111-46-6	Diethylene glycol (=Bis(2-hydroxyethyl)ether)	SML(T) = 30 mg/kg (expressed as ethylene glycol)
13326			(12)
15790	000111-40-0	Diethylenetriamine	SML = 5 mg/kg
15820	000345-92-6	4,4'-Difluorobenzophenone	SML = 0.05 mg/kg
15880	000120-80-9	1,2-Dihydroxybenzene (=Pyrocatechol)	SML = 6 mg/kg
24051			
15910	000108-46-3	1,3-Dihydroxybenzene (=Resorcinol)	SML = 2.4 mg/kg
24072			
15940	000123-31-9	1,4-Dihydroxybenzene (=Hydroquinone)	SML = 0.6 mg/kg
18867			
15970	000611-99-4	4,4'-Dihydroxybenzophenone	SML(T) = 6 mg/kg (13)

16000	000092-88-6	4,4'-Dihydroxydiphenyl	SML = 6 mg/kg
16090	000080-09-1	4,4'-Dihydroxydiphenylsulfone	SML = 0.05 mg/kg
13617		(=bisphenol S)	
		(= 4,4'-sulfonyl bis(phenol))	
		(= 1.1'-sulfonylbis(4-hydroxybenzene))	
		(=hydroxy-p-phenylene-sulfonyl-p-phenylene)	
16150	000108-01-0	Dimethylaminoethanol	SML = 18 mg/kg
16210	006864-37-5	3,3'-Dimethyl-4,4'-diaminodicyclohexylmethane	SML = 0.05 mg/kg (14) To be used only in
		(= bis(4-amino-3-methylcyclohexyl)methane)	polyamides.
16240	000091-97-4	4,4'-Diisocyanate of 3,3'-dimethylbiphenyl (=bitoluene	CL(T) = 1  mg/kg in FP or SML(T) = ND (DL = 0.01)
		diisocyanate)	mg/kg) (expressed as isocyanate group) (11)
		(=TODI)	
16360	000576-26-1	2,6-Dimethylphenol	SML = 0.05 mg/kg
16390	000126-30-7	2,2'-Dimethyl-1,3-propanediol	SML = 0.05 mg/kg
22437		(=Neopentyl glycol)	
16450	000646-06-0	1,3-Dioxolane	SML = 5 mg/kg
16480	000126-58-9	Dipentaerythritol	No restrictions.
16540	000102-09-0	Diphenyl carbonate	SML = 0.05 mg/kg
		(= diphenyl carbonate)	
16570	004128-73-8	Diphenylether-4,4'-diisocyanate	CL(T) = 1  mg/kg in FP or SML(T) = ND (DL = 0.01)
			mg/kg) (expressed as isocyanate group) (11)
16600	005873-54-1	2,4'-Diphenylmethane diisocyanate	CL(T) = 1  mg/kg in FP or SML(T) = ND (DL = 0.01)
			mg/kg) (expressed as isocyanate group) (11)
16630	000101-68-8	4.4'-Diphenylmethane diisocyanate	CL(T) = 1  mg/kg in FP or SML(T) = ND (DL = 0.01)
			mg/kg) (expressed as isocyanate group) (11)
16650	000127-63-9	Diphenylsulfone	SML = 3 mg/kg (15)

16660	000110-98-5	Dipropylene glycol (=Bis(hydroxypropyl) ether)	No restrictions.
13550			
16690	001321-74-0	Divinylbenzene	SML = ND (DL= 0.01 mg/kg) for the sum o divinylbenzene and ethylvinylbenzene and according to the specifications set forth in Part III.
16694	013811-50-2	N,N'-Divinyl-2-imidazolidinone	SML = 0.05 mg/kg
16697	000693-23-2	N-dodecanedioic acid	No restrictions.
16704	000112-41-4	1-Dodecene	SML = 0.05 mg/kg
16750	000106-89-8	Epichlorohydrin	CL = 1  mg/kg in FP or SML = ND (DL = 0.01  mg/kg)
14570		(=1-chloro-2,3-epoxypropane)	
16780	000064-17-5	Ethanol	No restrictions.
16950	000074-85-1	Ethylene	No restrictions.
16955	000096-49-1	Ethylene carbonate	SML = 30 mg/kg (expressed as ethylene glycol), and according to the specifications set forth in Part III.
16960	000107-15-3	Ethylenediamine (=1,2-diaminoethane)	SML = 12 mg/kg
15272			

16990	000107-21-1	Ethylene glycol	SML(T) = 30 mg/kg (expressed as ethylene glycol)
			(12)
17005	000151-56-4	Ethyleneimine	SML = ND (DL = 0.01 mg/kg)
17020	000075-21-8	Ethylene oxide	CL = 1 mg/kg in FP or SML = ND (DL = 0.01
			mg/kg)
17050	000104-76-7	2-Ethyl-1-hexanol	SML = 30 mg/kg
17110	016219-75-3	5-ethylidenebicyclo[2.2.1] hept-2-ene	SML = 0.05 mg/kg. The actual (surface-area-to-
		(= 5-ethylidene-2-norbornene)	volume) (= S/V) ratio of use must be less than 2
		(= 5-ethylidenecyclo-2,2,1-hept-2-ene)	dm²/kg.
17160	000097-53-0	Eugenol	SML = ND (DL = 0.01 mg/kg)
17170	061788-47-4	Coconut oil fatty acids	No restrictions.

17200	068308-53-2	Soybean oil fatty acids	No restrictions.
17230	061790-12-3	Pine oil ("tall oil") fatty acids	No restrictions.
17260	000050-00-0	Formaldehyde	SML(T) = 15 mg/kg (expressed as formaldehyde)
			(16)
17290	000110-17-8	Fumaric acid	No restrictions.
17530	000050-99-7	Glucose	No restrictions.
18010	000110-94-1	Glutaric acid	No restrictions.
18070	000108-55-4	Glutaric anhydride	No restrictions.
18100	000056-81-5	Glycerol	No restrictions.
18117	000079-14-1	Glycolic acid	To be used only in indirect contact with food, in a
			plastic layer separated from food by a layer of
			PET.
18220	068564-88-5	Acid N-heptilaminoundecanoic	SML = 0.05 mg/kg (4)
18250	000115-28-6	Hexachloro-endomethylene-tetrahydrophthalic	SML = ND (DL = 0.01 mg/kg)
		acid	
18280	000115-27-5	Hexachloro-endomethylene-tetrahydrophthalic	SML = ND (DL = 0.01 mg/kg)
		anhydride	
18310	036653-82-4	1-Hexadecanol	No restrictions.
18430	000116-15-4	Hexafluoropropylene	SML = ND (DL = 0.01 mg/kg)
18460	000124-09-4	Hexamethylenediamine	SML = 2.4 mg/kg
15274		(=1,6-diaminohexane)	
18640	000822-06-0	Hexamethylene diisocyanate	CL(T) = 1  mg/kg in FP or SML(T) = ND (DL = 0.01)
			mg/kg) (expressed as isocyanate group) (11)
18670	000100-97-0	Hexamethylenetetramine	SML(T) = 15 mg/kg (expressed as formaldehyde)
			(16)
18700	000629-11-8	1,6-Hexanediol	SML = 0.05 mg/kg
18820	000592-41-6	1-Hexene	SML = 3 mg/kg
18880	000099-96-7	P-hydroxybenzoic acid	No restrictions.

18896	001679-51-2	4-(Hydroxymethyl)-1-cyclohexene	SML = 0.05 mg/kg
18897	016712-64-4	6-hydroxy-2-naphthalenecarboxylic acid	SML = 0.05 mg/kg
18898	000103-90-2	N-(4-hydroxyphenyl) acetamide	SML = 0.05 mg/kg
19000	000115-11-7	Isobutene	No restrictions.
19060	000109-53-5	Isobutyl vinyl ether	SML = 0.05 mg/kg
19110	004098-71-9	1-Isocyanato-3-isocyanatomethyl-3,5,5- trimethylcyclohexane (= isophorone diisocyanate) (=IPDI)	CL(T) = 1 mg/kg in FP or SML(T) = ND (DL = 0.01 mg/kg) (expressed as isocyanate group) (11)
19150	000121-91-5	Isophthalic acid	SML(T) = 5 mg/kg (expressed as isophthalic acid) (17)
19180	000099-63-8	Isophthalic acid dichloride	SML(T) = 5 mg/kg (expressed as isophthalic acid) (17)
19210	001459-93-4	Dimethyl isophthalate	SML = 0.05 mg/kg
19270	000097-65-4	Itaconic acid	No restrictions.
19460	000050-21-5	Lactic acid	No restrictions.
19470	000143-07-7	Lauric acid	No restrictions.
19480	002146-71-6	Vinyl laurate	No restrictions.
19490	000947-04-6	Laurolactam	SML = 5 mg/kg
19510	011132-73-3	Lignocellulose	No restrictions.
19540	000110-16-7	Maleic acid	SML(T) = 30 mg/kg (expressed as maleic acid) (18)
19960	000108-31-6	Maleic anhydride	SML(T) = 30 mg/kg (expressed as maleic acid) (18)

19965	006915-15-7	Malic acid	Only to be used as a comonomer in aliphatic polyesters (maximum 1% in moles).
19990	000079-39-0	Methacrylamide	SML = ND (DL = 0.01 mg/kg)
20020	000079-41-4	Methacrylic acid	SML(T) = 6 mg/kg (expressed as methacrylic acid) (19)
20050	000096-05-9	Allyl methacrylate	SML = 0.05 mg/kg
20080	002495-37-6	Benzyl methacrylate	SML(T) = 6 mg/kg (expressed as methacrylic acid) (19)
20110	000097-88-1	Butyl methacrylate	SML(T) = 6 mg/kg (expressed as methacrylic acid) (19)
20140	002998-18-7	Sec-butyl methacrylate	SML(T) = 6 mg/kg (expressed as methacrylic acid) (19)
20170	000585-07-9	Tert-butyl methacrylate	SML(T) = 6 mg/kg (expressed as methacrylic acid) (19)
20260	000101-43-9	Cyclohexyl methacrylate	SML = 0.05 mg/kg
20410	002082-81-7	1,4-butanediol dimethacrylate	SML = 0.05 mg/kg
20440	000097-90-5	Ethylene glycol dimethacrylate	SML = 0.05 mg/kg
20530	002867-47-2	2-(dimethylamino)ethyl methacrylate	SML = ND (DL = 0.01 mg/kg)
20590	000106-91-2	2,3-epoxypropyl methacrylate	SML = 0.02 mg/kg
20890	000097-63-2	Ethyl methacrylate	SML(T) = 6 mg/kg (expressed as methacrylic acid) (19)
21010	000097-86-9	Isobutyl methacrylate	SML(T) = 6 mg/kg (expressed as methacrylic acid) (19)
21100	004655-34-9	Isopropyl methacrylate	SML(T) = 6 mg/kg (expressed as methacrylic acid) (19)
21130	000080-62-6	Methyl methacrylate	SML(T) = 6 mg/kg (expressed as methacrylic acid) (19)

21190	000868-77-9	Ethylene glycol monomethacrylate	SML(T) = 6 mg/kg (expressed as methacrylic acid)
			(19)
21280	002177-70-0	Phenyl methacrylate	SML(T) = 6 mg/kg (expressed as methacrylic acid)
			(19)
21340	002210-28-8	Propyl methacrylate	SML(T) = 6 mg/kg (expressed as methacrylic acid)
			(19)
21370	010595-80-9	2-sulfoethyl methacrylate	SML = ND (DL = 0.01 mg/kg)
21400	054276-35-6	Sulfopropyl methacrylate	SML = 0.05 mg/kg
21460	000760-93-0	Methacrylic anhydride	SML(T) = 6 mg/kg (expressed as methacrylic acid)
			(19)
21490	000126-98-7	Methacrylonitrile	SML = ND (DL = 0.01 mg/kg)
21498	002530-85-0	3-trimethoxysilylpropyl methacrylate	SML = 0.05 mg/kg. Only for use as a surface
			treatment agent for inorganic fillers
21520	БЦ	Methallyl sulfonic acid salts	SMI = 5 ma/ka
21000			SINL - 5 Highty
21550	000067-56-1	Methanol	No restrictions.
21550 21550 21640	000067-56-1	Methanol 2-Methyl-1,3-butadiene	No restrictions.       CL = 1 mg/kg in FP or SML = ND (DL = 0.01
21550 21550 21640 19243	000067-56-1 000078-79-5	Methanol 2-Methyl-1,3-butadiene (=isoprene)	No restrictions. CL = 1 mg/kg in FP or SML = ND (DL = 0.01 mg/kg)
21550 21550 21640 19243 21730	000067-56-1 000078-79-5 000563-45-1	Methanol 2-Methyl-1,3-butadiene (=isoprene) 3-Methyl-1-butene	No restrictions. CL = 1 mg/kg in FP or SML = ND (DL = 0.01 mg/kg) SML = ND (DL = 0.01 mg/kg). Only for use in
21550 21550 21640 19243 21730	000067-56-1 000078-79-5 000563-45-1	Methanol 2-Methyl-1,3-butadiene (=isoprene) 3-Methyl-1-butene	No restrictions.         CL = 1 mg/kg in FP or SML = ND (DL = 0.01 mg/kg)         SML = ND (DL = 0.01 mg/kg). Only for use in polypropylene.
21530 21550 21640 19243 21730 21765	000067-56-1 000078-79-5 000563-45-1 106246-33-7	Methanyl sunonic acid saits Methanol 2-Methyl-1,3-butadiene (=isoprene) 3-Methyl-1-butene 4,4'-Methylenebis(3-chloro-2,6-diethylaniline)	No restrictions.         CL = 1 mg/kg in FP or SML = ND (DL = 0.01 mg/kg)         SML = ND (DL = 0.01 mg/kg). Only for use in polypropylene.         SML = 0.05 mg/kg
21530 21550 21640 19243 21730 21765 21940	000067-56-1 000078-79-5 000563-45-1 106246-33-7 000924-42-5	Methanol 2-Methyl-1,3-butadiene (=isoprene) 3-Methyl-1-butene 4,4'-Methylenebis(3-chloro-2,6-diethylaniline) N-Methylolacrylamide	No restrictions.         CL = 1 mg/kg in FP or SML = ND (DL = 0.01 mg/kg)         SML = ND (DL = 0.01 mg/kg). Only for use in polypropylene.         SML = 0.05 mg/kg         SML = ND (DL = 0.01 mg/kg)
21530 21550 21640 19243 21730 21765 21940 21970	000067-56-1 000078-79-5 000563-45-1 106246-33-7 000924-42-5 000923-02-4	Methanyl sunollic acid saits         Methanol         2-Methyl-1,3-butadiene         (=isoprene)         3-Methyl-1-butene         4,4'-Methylenebis(3-chloro-2,6-diethylaniline)         N-Methylolacrylamide         N-methylol methacrylamide	SML = 0 mg/kg         No restrictions.         CL = 1 mg/kg in FP or SML = ND (DL = 0.01 mg/kg)         SML = ND (DL = 0.01 mg/kg). Only for use in polypropylene.         SML = 0.05 mg/kg         SML = ND (DL = 0.01 mg/kg)         SML = 0.05 mg/kg         SML = 0.05 mg/kg
21530 21550 21640 19243 21730 21765 21940 21970 22074	000067-56-1 000078-79-5 000563-45-1 106246-33-7 000924-42-5 000923-02-4 004457-71-0	Methanol         2-Methyl-1,3-butadiene         (=isoprene)         3-Methyl-1-butene         4,4'-Methylenebis(3-chloro-2,6-diethylaniline)         N-Methylolacrylamide         N-methylol methacrylamide         3-Methylpentane-1,5-diol	No restrictions.         CL = 1 mg/kg in FP or SML = ND (DL = 0.01 mg/kg)         SML = ND (DL = 0.01 mg/kg). Only for use in polypropylene.         SML = 0.05 mg/kg         SML = ND (DL = 0.01 mg/kg)         SML = 0.05 mg/kg         SML = 0.05 mg/kg         SML = 0.05 mg/kg
21530 21550 21640 19243 21730 21765 21940 21970 22074	000067-56-1 000078-79-5 000563-45-1 106246-33-7 000924-42-5 000923-02-4 004457-71-0	Methanol         2-Methyl-1,3-butadiene         (=isoprene)         3-Methyl-1-butene         4,4'-Methylenebis(3-chloro-2,6-diethylaniline)         N-Methylolacrylamide         N-methylol methacrylamide         3-Methylpentane-1,5-diol	No restrictions.         CL = 1 mg/kg in FP or SML = ND (DL = 0.01 mg/kg)         SML = ND (DL = 0.01 mg/kg). Only for use in polypropylene.         SML = 0.05 mg/kg         SML = ND (DL = 0.01 mg/kg)         SML = 0.05 mg/kg         For use in food-contact materials with
21530 21550 21640 19243 21730 21765 21940 21970 22074	000067-56-1 000078-79-5 000563-45-1 106246-33-7 000924-42-5 000923-02-4 004457-71-0	Methanol         2-Methyl-1,3-butadiene         (=isoprene)         3-Methyl-1-butene         4,4'-Methylenebis(3-chloro-2,6-diethylaniline)         N-Methylolacrylamide         N-methylol methacrylamide         3-Methylpentane-1,5-diol	No restrictions.         CL = 1 mg/kg in FP or SML = ND (DL = 0.01 mg/kg)         SML = ND (DL = 0.01 mg/kg). Only for use in polypropylene.         SML = 0.05 mg/kg         SML = ND (DL = 0.01 mg/kg)         SML = 0.05 mg/kg         SML = 0.05 mg/kg         For use in food-contact materials with a (surface-area-to-volume) ratio of up to
21530 21550 21640 19243 21730 21765 21940 21970 22074	000067-56-1 000078-79-5 000563-45-1 106246-33-7 000924-42-5 000923-02-4 004457-71-0	Methanyl sunollic acid saits         Methanol         2-Methyl-1,3-butadiene         (=isoprene)         3-Methyl-1-butene         4,4'-Methylenebis(3-chloro-2,6-diethylaniline)         N-Methylolacrylamide         N-methylol methacrylamide         3-Methylpentane-1,5-diol	No restrictions.         CL = 1 mg/kg in FP or SML = ND (DL = 0.01 mg/kg)         SML = ND (DL = 0.01 mg/kg). Only for use in polypropylene.         SML = 0.05 mg/kg         SML = ND (DL = 0.01 mg/kg)         SML = 0.05 mg/kg         SML = 0.05 mg/kg         For use in food-contact materials with a (surface-area-to-volume) ratio of up to 0.5 dm²/kg
21530 21550 21640 19243 21730 21765 21940 21970 22074	000067-56-1 000078-79-5 000563-45-1 106246-33-7 000924-42-5 000923-02-4 004457-71-0	Methanyl sunollic acid saits         Methanol         2-Methyl-1,3-butadiene         (=isoprene)         3-Methyl-1-butene         4,4'-Methylenebis(3-chloro-2,6-diethylaniline)         N-Methylolacrylamide         N-methylol methacrylamide         3-Methylpentane-1,5-diol	No restrictions.         CL = 1 mg/kg in FP or SML = ND (DL = 0.01 mg/kg)         SML = ND (DL = 0.01 mg/kg). Only for use in polypropylene.         SML = 0.05 mg/kg         SML = ND (DL = 0.01 mg/kg)         SML = 0.05 mg/kg         SML = 0.05 mg/kg         SML = 0.05 mg/kg         For use in food-contact materials with a (surface-area-to-volume) ratio of up to 0.5 dm²/kg

22150	000691-37-2	4-Methyl-1-pentene	SML = 0.05 mg/kg
22210	000098-83-9	Alpha-methylstyrene	SML = 0.05 mg/kg
22331	025513-64-8	Mixture of (35-45% w/w) 1,6-diamino-2,2,4- trimethylhexane and (55-65% w/w) 1,6-diamino-2,4,4- trimethylhexane	SML = 0.05 mg/kg
22332	DH	Mixture of (40% w/w) 2,2,4-trimethylhexane 1,6- diisocyanate and (60% w/w) 2,4,4- trimethylhexane 1,6- diisocyanate	CL(T) = 1 mg/kg in FP or SML(T) = ND (DL = 0.01 mg/kg) (expressed as isocyanate group) (11)
22350	000544-63-8	Myristic acid	No restrictions.
22360	001141-38-4	2,6-naphthalenedicarboxylic acid	SML = 5 mg/kg
22390	000840-65-3	2,6-dimethyl naphthalene dicarboxylate	SML = 0.05 mg/kg
22420	003173-72-6	1,5-naphthalene diisocyanate	CL(T) = 1 mg/kg in FP or SML(T) = ND (DL = 0.01 mg/kg) (expressed as isocyanate group) (11)
22450	009004-70-0	Nitrocellulose	No restrictions.
22480	000143-08-8	1-Nonanol	No restrictions.
22570	000112-96-9	Octadecyl isocyanate	CL(T) = 1 mg/kg in FP or SML(T) = ND (DL = 0.01 mg/kg) (expressed as isocyanate group) (11)
22600	000111-87-5	1-Octanol	No restrictions.
22660	000111-66-0	1-Octene	SML = 15 mg/kg
22763	000112-80-1	Oleic acid	No restrictions.
22775	000144-62-7	Oxalic acid	SML = 6 mg/kg (20)
22778	007456-68-0	4,4'-oxybis(benzenesulfonyl azide)	SML = 0.05 mg/kg
22780	000057-10-3	Palmitic acid	No restrictions.
22840	000115-77-5	Pentaerythritol	No restrictions.
22870	000071-41-0	1-Pentanol	No restrictions.

22900	000109-67-1	1-Pentene	SML = 5 mg/kg
22932	001187-93-5	Perfluoromethyl perfluorovinyl ether	SML = 0.05 mg/kg. Only for use in the case of non-stick coatings.
22937	001623-05-8	Perfluoropropyl perfluorovinyl ether	SML = 0.05 mg/kg
22960	000108-95-2	Phenol	No restrictions.
23050	000108-45-2	1,3-Phenylenediamine (= m-phenylenediamine)	SML = ND (DL = 0.01 mg/kg)
23070	000102-39-6	(1,3-phenylenedioxy)diacetic acid	SML = 0.05 mg/kg
23170	007664-38-2	Phosphoric acid	No restrictions.
23175	000122-52-1	Triethylphosphite	CL = 1 mg/kg in FP
23200	000088-99-3	O-phthalic acid	No restrictions.
23230	000131-17-9	Diallyl phthalate	SML = ND (DL = 0.01 mg/kg)
23380	000085-44-9	Phthalic anhydride	No restrictions.
23470	000080-56-8	alpha-Pinene	No restrictions.
23500	000127-91-3	beta-Pinene	No restrictions.
23590	025322-68-3	Polyethylene glycol	No restrictions.
23651	025322-69-4	Polypropylene glycol	No restrictions.
23740	000057-55-6	1,2-Propanediol (=propylene glycol)	No restrictions.
23770	000504-63-2	1,3-Propanediol	SML = 0.05 mg/kg
23800	000071-23-8	1-Propanol	No restrictions.
23830	000067-63-0	2-Propanol (=isopropanol) (=propan-2-ol) (=isopropyl alcohol)	No restrictions.
23860	000123-38-6	Propionaldehyde	No restrictions.

23890	000079-09-4	Propionic acid	No restrictions.
23920	000105-38-4	Vinyl propionate	SML(T) = 6 mg/kg (expressed as acetaldehyde) (1)
23950	000123-62-6	Propionic anhydride	No restrictions.
23980	000115-07-1	Propylene	No restrictions.
24010	000075-56-9	Propylene oxide	CL = 1 mg/kg in FP or SML = ND (DL = 0.01 mg/kg)
24057	000089-32-7	Pyromellitic anhydride	SML = 0.05 mg/kg (expressed as pyromellitic acid).
24070	073138-82-6	Resin acids and rosin acids	No restrictions.
24073	000101-90-6	Diglycidyl resorcinol ether	SML = ND (DL = 0.01 mg/kg). Only for multilayer structures in contact with non-fatty foods. The layer in which this substance is used must be separated from food by a layer of PET.
24100	008050-09-7	Rosin	No restrictions.
24130		(=Rosin gum)	
24190		(= Wood rosin) (= Rosin)	
24160	008052-10-6	Pine oil rosin (= Rosin tall oil)	No restrictions.
24250	009006-04-6	Natural rubber	No restrictions.
24270	000069-72-7	Salicylic acid	No restrictions.
24280	000111-20-6	Sebacic acid	No restrictions.
24430	002561-88-8	Sebacic anhydride	No restrictions.
24475	001313-82-2	Sodium sulfide	No restrictions.
24490	000050-70-4	Sorbitol	No restrictions.
24520	008001-22-7	Soybean oil	No restrictions.

24540	009005-25-8	Starch, food grade quality	No restrictions.
24550	000057-11-4	Stearic acid	No restrictions.
24610	000100-42-5	Styrene	No restrictions.
24760	026914-43-2	Styrenesulfonic acid	SML = 0.05 mg/kg
24820	000110-15-6	Succinic acid	No restrictions.
24850	000108-30-5	Succinic anhydride	No restrictions.
24880	000057-50-1	Saccharase	No restrictions.
24888	003965-55-7	Dimethyl-5-sulphoisophthalate, monosodium salt	SML = 0.05 mg/kg
24889	DH	5-sulphoisophthalic acid salts	SML = 5 mg/kg
24903	068425-17-2	Hydrogenated hydrolized starch syrups	In accordance with the specifications set forth in Part III.
24910	000100-21-0	Terephthalic acid	SML (T) = 7.5 mg/kg (expressed as terephthalic acid) (21)
24940	000100-20-9	Terephthalic acid dichloride	SML (T) = 7.5 mg/kg (expressed as terephthalic acid) (21)
24970	000120-61-6	Dimethyl terephthalate	No restrictions.
25080	001120-36-1	1-Tetradecene	SML = 0.05 mg/kg
25090	000112-60-7	Tetraethylene glycol	No restrictions.
25120	000116-14-3	Tetrafluoroethylene	SML = 0.05 mg/kg
25150	000109-99-9	Tetrahydrofuran	SML = 0.6 mg/kg
25180	000102-60-3	N,N,N', N'-Tetrakis(2-hydroxypropyl)ethylenediamine	No restrictions.
25187	003010-96-6	2,2,4,4-Tetramethylcyclobutane-1,3-diol	SML = 5 mg/kg Only for repeated use articles for long term storage at room temperature or below and hot fill.

25210	000584-84-9	Toluene-2,4-diisocyanate	CL(T) = 1 mg/kg in FP or SML(T) = ND (DL = 0.01 mg/kg) (expressed as isocyanate group) (11)
25240	000091-08-7	Toluene 2,6- diisocyanate	CL(T) = 1 mg/kg in FP or SML(T) = ND (DL = 0.01 mg/kg) (expressed as isocyanate group) (11)
25270	026747-90-0	2,4-Toluene diisocyanate dimer	CL(T) = 1 mg/kg in FP or SML(T) = ND (DL = 0.01 mg/kg) (expressed as isocyanate group) (11)
25360	DH	Trialkyl(C5-C15)acetic acid, 2,3-epoxypropyl ester	CL = 1 mg/kg in FP (expressed as epoxy group) o SML = ND (DL = 0.01 mg/kg, expressed as epoxy group). Molecular weight = 43 Da
25380	DH	Trialkyl(C7-C17)acetic acid, vinyl ester (= vinyl versatate)	SML = 0.05 mg/kg
25385	000102-70-5	Triallylamine	According to the specifications set forth in Part III.
25420	000108-78-1	2.4.6-Triamino-1.3.5-triazine	SML = 2.5 mg/kg
19975		(=Melamine)	
25450	026896-48-0	Tricyclodecane dimethanol	SML = 0.05 mg/kg
25510	000112-27-6	Triethylene glycol	No restrictions.

000528-44-9	Trimellitic acid	SML(T) = 5 mg/kg (expressed as trimellitic acid)
		(22)
000552-30-7	Trimellitic anhydride	SML(T) = 5 mg/kg (expressed as trimellitic acid)
		(22)
000077-99-6	1,1,1-Trimethylolpropane	SML = 6 mg/kg
	(= 2,2-Bis(hydroxymethyl)-1-butanol)	
003290-92-4	1,1,1-Trimethylolpropane trimethacrylate	SML = 0.05 mg/kg
	000528-44-9 000552-30-7 000077-99-6 003290-92-4	000528-44-9Trimellitic acid000552-30-7Trimellitic anhydride000077-99-61,1,1-Trimethylolpropane (= 2,2-Bis(hydroxymethyl)-1-butanol)003290-92-41,1,1-Trimethylolpropane trimethacrylate

25872	002416-94-6	2,3,6-Trimethylphenol	SML = 0.05 mg/kg
25900	000110-88-3	Trioxane	SML = 5 mg/kg
25910	024800-44-0	Tripropylene glycol	No restrictions.
25927	027955-94-8	1,1,1-Tris(4-hydroxyphenyl)ethane	SML =0.05 mg/kg. Only for use in polycarbonates.
25960	000057-13-6	Urea	No restrictions.
26050	000075-01-4	Vinyl chloride	CL = 1 mg/kg in FP or SML = ND (DL = 0.01 mg/kg)
26110	000075-35-4	Vinylidene chloride	SML = ND (ND = 0.01 mg/kg)
26140	000075-38-7	Vinylidene fluoride	SML = 5 mg/kg
26155	001072-63-5	1-Vinylimidazole	SML = 0.05 mg/kg
26170	003195-78-6	N-Vinyl-N-methylacetamide	SML = 0.02 mg/kg
26305	000078-08-0	Vinyltriethoxysilane	SML = 0.05 mg/kg. Only for use as surface treatment agent.
26320	002768-02-7	Vinyltrimethoxysilane	SML = 0.05 mg/kg
26360	007732-18-5	Water	It must satisfy the quality criteria of water intended for human consumption.



## PART II PRODUCTS OBTAINED BY MEANS OF BACTERIAL FERMENTATION METHODS

The authorized polymers correspond to those obtained from the monomers listed in PART I and/or the polymers listed in PART II and/or PART V.

REFERENCE	CAS	SUBSTANCE	RESTRICTIONS AND/OR SPECIFICATIONS
NUMBER	NUMBER		
18888	080181-31-3	Copolymer of 3-hydroxybutanoic and 3- hydroxypentanoic acids (PHB/PHV)	According to the specifications set forth in Part III.

## PART III

# **SPECIFICATIONS**

The substances are not listed in alphabetical order, but in the increasing order of the reference number.

REFERENCE	SUBSTANCE AND SPECIFICATIONS	
NUMBER		
11530	2-hydroxypropyl acrylate	
	It may contain up to 25% (w/w) of 2-hydroxyisopropyl acrylate (CAS 002918-23-2).	
16690	Divinylbenzene	
	It may contain up to 45% (w/w) of ethylvinylbenzene.	
16955	Ethylene carbonate	
	Residual content of 5 mg/kg of hydrogel, with a maximum of 10 g of hydrogel in contact with 1 kg of food.	

18888 18888 1 18888 1 18888 1 18888 1 18888 1 18888 1 18888 1 18888 1 18888 1 18888 1 18888 1 18888 1 18888 1 18888 1 18888 1 18888 1 18888 1 18888 1 18888 1	Copolymer of 3-hydroxybutanoic and 3-hydroxypentanoic acids. Definition: These copolymers are produced by means of the controlled fermentation of <i>Alcaligenes eutrophus</i> , which uses mixtures of glucose and propanoic acid as carbon sources. The organism used has not been genetically manipulated and comes from a single natural organism, <i>Alcaligenes eutrophus</i> , HI6 NCIMB 10442 strain. Master stocks of this organism are stored in lyophilized ampoules. A secondary working stock is prepared from the master stock which is stored in liquid nitrogen and is used to prepare inocula for the fermenter. Fermenter samples are examined on a daily basis through microscope and any change in colonial morphology in a variety of agars at different temperatures is observed. The copolymers are isolated from heat-treated bacteria by means of controlled digestion of the other cellular components, washing and drying. These copolymers normally appear as granules formed by fusion that contain additives such as nucleating agents, plasticizers, fillers, stabilizers and pigments, all of which conform to the general and specific requisites. Chemical name: Poly (3-D-hydroxybutanoato-co-3-D-hydroxypentanoate) CAS Number: 080181-31-3 Structural formula CH <sub>3</sub> 0 CH <sub>2</sub> 0 I II I II II (-O-CH-CH <sub>2</sub> -C-)m-(O-CH-CH <sub>2</sub> -C-)n
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where n/(m+n) > o and  $n/(m+n) \le 0.25$ 

	Mean molecular weight: no less than 150,000 Daltons (measured by gel permeation chromatography (GPC). Composition: not less than 98% of poly(3-D-hydroxybutanoato-co-3-D-hydroxypentanoate) analyzed after hydrolysis as a mixture of 3-D hydroxybutanoic and 3-D-hydroxypentanoic acids. Description: white or off-white powder following isolation Characteristics:		
	Solubility Soluble in chlorinated hydrocarbons such as chloroform or dichloromethane, but virtually insoluble in ether alkanes and water.		
	Restriction	The SML for crotonic acid is 0.05 mg/kg.	
	Purity	Prior to granulation, the raw copolymer powder must contain:	
	- nitrogen ≤ 2500 mg/kg of plastic		
	$-$ zinc $\leq$ 100 mg/kg of plastic		
	- lead $\leq 2 \text{ mg/kg of plastic}$		
	- arsenic ≤ 1 mg/kg of plastic		
	- chromium ≤ 1	1 mg/kg of plastic	
24903	4903 Hydrogenated syrups of hydrolyzed starch		
	According to the purity criteria set forth for maltitol syrups		
25385	Triallylamine		
20000	40 mg/kg hydrogel at a ratio of 1 kg food to a maximum of 1.5 g of hydrogel. For use only in hydrogels not intended for direct food contact use.		

## PART IV

## Notes on the "Restrictions and/or Specifications" Column

In order to facilitate their intercomparison, the reference numbers of the substances mentioned in the notes correspond to (EU) Regulation 10/2011 of the European Commission dated January 14, 2011, on plastic materials and articles intended to come into contact with food.

In the case of reference numbers which in the (EU) Regulation 10/2011 correspond to plastic materials additives, the corresponding chemical names and CAS numbers (if any) are indicated in the Table below for their identification.

Only the additives contained in the MERCOSUR Resolution on the Positive List of Additives for Plastic Materials may be used in the manufacture of plastic materials intended to come into contact with food. Therefore, if an additive mentioned in the notes is not contained in the MERCOSUR Resolution, its use is not authorized.

### Table: Notes on the "Restrictions and/or Specifications" Column

(1)	SML(T) means in this case that the sum of the migration of the substances with reference numbers <b>10060</b> and <b>23920</b> shall not exceed the indicated restriction.
(2)	SML(T) means in this case that the sum of the migration of the substances with reference numbers <b>10599/90A</b> , <b>10599/91</b> , <b>10599/92A</b> and <b>10599/93</b> shall not exceed the indicated restriction.
(3)	SML(T) means in this case that the sum of the migration of the substances with reference numbers <b>10690</b> , <b>10750</b> , <b>10780</b> , <b>10810</b> , <b>10840</b> , <b>11470</b> , <b>11590</b> , <b>11680</b> , <b>11710</b> , <b>11830</b> / <b>11510</b> , <b>11890</b> , <b>11980</b> , <b>31500</b> (Copolymers of acrylic acid and 2-ethylhexyl acrylate, CAS 025134-51-4) and <b>76463</b> (polyacrylic acid salts) shall not exceed the indicated restriction.
(4)	Warning: there is a risk of exceeding the SML or the total migration limit in fatty food simulants.
(5)	SML(T) means in this case that the sum of the migration of the substances with reference numbers <b>13480/13607</b> and <b>39680</b> (2,2-bis(4-hydroxyphenyl)propane CAS 000080-05-7) shall not exceed the indicated restriction.
(6)	SML(T) means in this case that the sum of the migration of the substances with reference numbers <b>13620</b> and <b>40320</b> (boric acid CAS 010043-35-3), <b>36840</b> (barium tetraborate, CAS 012007-55-5) and <b>87040</b> (sodium tetraborate, CAS 001330-43-4) shall not exceed the indicated restriction.
(7)	SML(T) means in this case that the sum of the migration of the substances with reference numbers <b>13720</b> and <b>40580</b> (1,4-butanediol CAS 000110-63-4) shall not exceed the indicated restriction.
(8)	SML(T) means in this case that the sum of the migration of the substances with reference numbers <b>14200</b> and <b>41840</b> (caprolactam CAS 000105-60-2) and <b>14230</b> shall not exceed the indicated restriction.

(9)	SML(T) means in this case that the sum of the migration of caprolactone and 6- hydroxyhexanoic acid, derived from the substances with reference numbers <b>14260</b> and <b>76845</b> (1,4-butanediol polyester with caprolactone (=2-oxepanona, polymer with 1,4-butanediol) shall not exceed the indicated restriction.
(10)	SML means in this case that the migration of the substances with reference numbers <b>14800</b> and <b>45600</b> (crotonic acid CAS 003724-65-0) shall not exceed the indicated restriction.
(11)	CL(T) means in this case that the sum of the residual amounts of the substances with reference numbers <b>14950</b> , <b>15700/13560</b> , <b>16240</b> , <b>16570</b> , <b>16600</b> , <b>16630</b> , <b>18640</b> , <b>19110</b> , <b>22332</b> , <b>22420</b> , <b>22570</b> , <b>25210</b> , <b>25240</b> and <b>25270</b> shall not exceed the indicated restriction. Likewise, SML(T) means in this case that the sum of the specific migrations of the aforementioned substances shall not exceed the indicated restriction.
(12)	SML(T) means in this case that the sum of the migration of the substances with reference numbers <b>15760/13326</b> and <b>47680</b> (diethylene glycol CAS 000111-46-6), <b>16990</b> and <b>53650</b> (ethylene glycol CAS 000107-21-1) and <b>89440</b> (stearic acid esters with ethylene glycol) shall not exceed the indicated restriction.
(13)	SML(T) means in this case that the sum of the migration of the substances with reference numbers <b>15970</b> and <b>48720</b> (4,4'-dihydroxybenzophenone CAS 000611-99-4), <b>48640</b> (2,4-dihydroxybenzophenone CAS 000131-56-6), <b>48880</b> (2,2'-dihydroxy-4-methoxybenzophenone CAS 000131-53-3), <b>61280</b> (2-hydroxy-4-n-hexyloxybenzophenone CAS 003293-97-8), <b>61360</b> (2-hydroxy-4-methoxybenzophenone CAS 000131-57-7) and <b>61600</b> (2-hydroxy-4-n-octyloxybenzophenone CAS 001843-05-6) shall not exceed the indicated restriction.
(14)	When intended for use in contact with fatty foods, conformity will be evaluated using isoctane as D simulant.
(15)	SML means in this case that the migration of the substances with reference numbers <b>16650</b> and <b>51570</b> (diphenyl sulfone CAS 000127-63-9) shall not exceed the indicated restriction.
(16)	SML(T) means in this case that the sum of the migration of the substances with reference numbers <b>17260</b> and <b>54880</b> (formaldehyde CAS 000050-00-0) and <b>18670</b> and <b>59280</b> (hexamethylenetetramine CAS 000100-97-0) shall not exceed the indicated restriction.
(17)	SML(T) means in this case that the sum of the migration of the substances with reference numbers <b>19150</b> and <b>19180</b> shall not exceed the indicated restriction.
(18)	SML(T) means in this case that the sum of the migration of the substances with reference numbers <b>19960</b> , <b>19540</b> and <b>64800</b> (maleic acid CAS 00110-16-7) shall not exceed the indicated restriction.
(19)	SML(T) means in this case that the sum of the migration of the substances with reference numbers <b>20020</b> , <b>20080</b> , <b>20110</b> , <b>20140</b> , <b>20170</b> , <b>20890</b> , <b>21010</b> , <b>21130</b> , <b>21190</b> , <b>21280</b> , <b>21340</b> , <b>21460</b> and that of 2-hydroxypropyl methacrylate (CAS 000923-26-2) shall not exceed the indicated restriction.

(20)	SML means in this case that the migration of the substances with reference
	numbers 22775 and 69920 (oxalic acid CAS 000144-62-7) shall not exceed the

(21)	SML(T) means in this case that the sum of the migration of the substances with reference numbers <b>24910</b> and <b>24940</b> shall not exceed the indicated restriction.
(22)	SML(T) means in this case that the sum of the migration of the substances with reference numbers <b>25540</b> and <b>25550</b> shall not exceed the indicated restriction.
(23)	SML(T) means in this case that the sum of the migration of the substances with reference numbers <b>81515</b> (poly(zinc glycerolate), CAS 087189-25-1), <b>96190</b> (zinc hydroxide, CAS 020427-58-1), <b>96240</b> (zinc oxide, CAS 001314-13-2) and <b>96320</b> (zinc sulfide, CAS 001314-98-3), as well as the zinc salts (including double salts and acid salts) of the authorized acids, phenols or alcohols shall not exceed the indicated restriction. The restriction set forth for zinc shall also apply to substances whose names contain the term " acid salts", however the corresponding free acid is not mentioned.
(24)	SML(T) means in this case that the sum of the migration of the substances with reference numbers <b>38000</b> (benzoic acid lithium salt, CAS 000553-54-8), <b>42400</b> (carbonic acid lithium salt, CAS 010377-37-4), <b>62020</b> (12-hydroxystearic acid lithium salt, CAS 007620-77-1), <b>64320</b> (lithium iodide CAS 010377-51-2), <b>66350</b> (2,2'-methylenebis(4,6-di-tert-butylphenyl) lithium phosphate, CAS 085209-93-4), <b>67896</b> (myristic acid lithium salt, CAS 020336-96-3), <b>73040</b> (phosphoric acid lithium salts, CAS 013763-32-1), <b>85760</b> (lithium aluminum silicate (2:1:1), CAS 012068-40-5), <b>85840</b> (lithium magnesium sodium silicate, CAS 053320-86-8), <b>85920</b> (lithium silicate, CAS 012627-14-4) and <b>95725</b> (vermiculite, reaction product with lithium citrate, CAS 110638-71-6), as well as the lithium salts (including double salts and acid salts) of authorized acids, phenols or alcohols, shall not exceed the indicated restriction. The restriction set forth for lithium shall also apply to substances whose names contain the term " acid salts", however the corresponding free acid is not mentioned.



# PART V LIST OF AUTHORIZED POLYMERS

The authorized polymers correspond to those obtained from the monomers listed in PART I and/or the polymers listed in PART II and/or in PART V.

CAS	SUBSTANCE	RESTRICTIONS
NUMBER		
009004-35-7	Cellulose acetate	To be used in polymeric and resinous coatings.
261716-94-3	Copolymer of dimethyl terephthalate, 1,4-cyclohexanedimethanol and 2,2,4,4- tetramethyl-1,3-cyclobutanediol	Containing up to 40 mole% of 2,2,4,4-tetramethyl-1,3-cyclobutanediol (expressed as molar percentage of the glycol component of the finished copolyester) and containing not less than 60 mole% 1,4- cyclohexanedimethanol. The copolymer will be used as a component in the manufacture of repeated use articles in contact with all types of food at temperatures below or equal to 100 $^{\circ}$ C.
	Copolymers of ethylene, propylene and dicyclopentadiene (CAS 000077-73-6)	No restrictions.
	Copolymers of ethylene, propylene and 1,4- hexadiene (CAS 000592-45-0)	With no more than 4.5% (w/w) of polymer units derived from 1,4- hexadiene.
009004-57-3	Ethylcellulose	No restrictions.
009002-89-5	Poly(vinyl alcohol)	See "vinyl acetate", reference number 10120, in Part I.
098002-48-3		
025038-54-4	Polyamide 6	See "caprolactam", reference number 14200, in Part I.
025035-04-5	Polyamide 11	See "11-aminoundecanoic acid", reference number 12788, in Part I.
024937-16-4	Polyamide 12	See "laurolactam", reference number 19490, in Part I.

032131 17 2	Debuewide 0.0	
032131-17-2	Polyamide 6,6	See "hexamethylenediamine", reference number 18460 and "adipic acid", reference
	(= polymer of hexamethylenediamine and	number 12130, in Part I.
	adipic acid)	
	(= Polyamide 66)	
009008-66-6	Polyamide 6,10	See "hexamethylenediamine", reference number 18460 and "sebacic acid",
	(= polymer of hexamethylenediamine and	reference number 24280, in Part I.
	sebacic acid)	
	(= Polyamide 610)	
DH	Polyamide 6/11 (= polymer of caprolactam and	See "caprolactam", reference number 14200 and "11-aminoundecanoic acid".
	11-aminoundecanoic acid)	reference number 12788 in Part I
024936-74-1	Polyamide 6.12 (= polymer of	See "hexamethylenediamine", reference number 18460 and "n- dodecanedioic
	hexamethylenediamine and n-dodecanedioic	acid" reference number 16697 in Part I
	acid)	
	(=Polyamide 612)	
024993-04-2	Polyamide 6/66 (=copolymer of	See "hexamethylenediamine" reference number 18460. "adinic acid" reference
021000012	hovemethylopodiamino, adinio acid and	see Trexametry energiantine, reference number 10400, adupt add, reference
	approlocitom)	
025191-04-2	Polyamide 6/12	See "caprolactam", reference number 14200, and "laurolactam", reference number
	(= copolymer of caprolactam and laurolactam)	19490 in Part I
025776-72-1	Polyamide 66T (=copolymer of	See "hexamethylenediamine", reference number 18460, "adipic acid", reference
	hexamethylenediamine, adipic acid and	number 12130, and "terephthalic acid", reference number 24910, in Part I.
	terephthalic acid)	
	(= Polyamide 6/6T)	
1		

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025750-23-6	Polyamide 6I/6T (= copolymer of hexamethylenediamine, terephthalic acid and isophthalic acid)	See "hexamethylenediamine", reference number 18460, "terephthalic acid", reference number 24910, and "isophthalic acid", reference number 19150, in Part I.
DH	Polyamide 6/6T/6I (= copolymer of caprolactam, adipic acid, 1,6- diamino-2,2,4-trimethylhexane; 1,6- diamino- 2,4,4-trimethylhexane; and 1- amino-3- aminomethyl-3,5,5-trimethyl- cyclohexane)	See "caprolactam", reference number 14200, "adipic acid", reference number 12130, "mixture of (35-45% w/w) 1,6-diamino-2,2,4- trimethylhexane and (55-65% w/w) 1,6-diamino-2,4,4-trimethylhexane" reference number 22331, and "1-amino-3-aminomethyl-3,5,5-trimethylcyclohexane", reference number 12670, in Part I.
DH	Polyamide 12T (= polyamide obtained by reaction of laurolactam, isophthalic acid and 3,3'- dimethyl- 4,4'- diaminodicyclohexylmethane (= bis(4-amino-3- methylcyclohexyl)methane)	See "laurolactam", reference number 19490, "isophthalic acid", reference number 19150, and "3,3'-dimethyl-4,4'-diaminodicyclohexylmethane (= bis(4-amino-3-methylcyclohexyl)methane)", reference number 16210, in Part I.
025718-70-1	Polyamide MXD-6 (= polyamide obtained by reaction of adipic acid and 1,3-benzene dimethanamine (= meta-xylylenediamine)	See "adipic acid", reference number 12130, and "1,3- benzenedimethanamine (= meta-xylylenediamine)", reference number 13000, in Part I.
059655-05-9	Impact-modified polyamide MXD-6 (= polyamide obtained by reaction of adipic acid, 1,3-benzene dimethanamine and alpha-(3- aminopropyl)-omega-(3-amino- propoxy) poly- oxyethylene)	See "adipic acid", reference number 12130, and "1,3-benzene dimethanamine", reference number 13000, in Part I. For alpha-(3-aminopropyl)-omega-(3-amino-propoxy) poly-oxyethylene: CL = 7% in FP

025766-59-0 025037-45-0	Polycarbonate (= polymer obtained by the reaction of 2,2- bis(4-hydroxyphenyl) propane (= bisphenol A) (=4,4'-isopropylidenediphenol) and carbonyl chloride (= phosgene) or diphenyl carbonate (= poly(bisphenol A-co-carbonic acid))	See "2,2-bis(4-hydroxyphenyl) propane (= bisphenol A) (= 4,4'-isopropylidenediphenol)", reference number 13480, "carbonyl chloride (=phosgene)", reference number 14380 and "diphenyl carbonate (=diphenyl carbonate)", reference number 16540 in Part I.
	Polyesters: polymers, including alkyd resins, obtained by esterification of one or more organic acids or anhydrides, with one or more alcohols or polyepoxides, and cross-linked with cross-linking agents or not, listed below:	In accordance with good manufacturing practices, articles made of cross-linked thermoset polyesters must be carefully washed before first use.
	1) Acids:	
	- acetic (CAS 000064-19-7)	No restrictions. (Reference 10090, in Part I).
	- acrylic (CAS 000079-10-7)	See "acrylic acid", reference number 10690, in Part I.
	- adipic (CAS 000124-04-9)	No restrictions. (Reference 12130, in Part I).
	- terpene-maleic acid adduct (CAS 977186-57- 4)	Only for use in coatings. See "maleic acid", reference number 19540, in Part I.
	- azelaic (CAS 000123-99-9)	No restrictions. (Reference 12820, in Part I).
	- benzoic (CAS 000065-85-0)	No restrictions. (Reference 13090, in Part I).
	- 4,4-bis(4'-hydroxyphenyl)-pentanoic (= 4,4-bis(4'-hydroxyphenyl)-pentanoic acid) (CAS 000126-00-1)	Only for use in coatings.
	- caprylic (CAS 000124-07-2)	No restrictions. (Reference 14320, in Part I).

- 1,4-cyclohexanedicarboxylic (CAS 001076- 97-7)	See "cyclohexane-1,4-dicarboxylic acid", reference number 14876, in Part I.
- rosin (CAS 008050-09-7)	No restrictions. (References 24100, 24130 and 24190, in Part I).
- maleic rosin	See "maleic acid", reference number 19540, and/or "maleic anhydride", reference number 19960, in Part I.
- crotonic (CAS 003724-65-0)	See "crotonic acid", reference number 14800, in Part I.
- stearic (CAS 000057-11-4)	No restrictions. (Reference 24550, in Part I).
- fumaric (CAS 000110-17-8)	No restrictions. (Reference 17290, in Part I).
- glutaric (CAS 000110-94-1)	No restrictions. (Reference 18010, in Part I).
- bovine fat fatty acids and dimers	No restrictions.
- coconut oil fatty acids and dimers	No restrictions.
- sunflower oil fatty acids and dimers	No restrictions.
- soybean oil fatty acids and dimers	No restrictions.
- vegetable oil fatty acids and dimers	No restrictions.
- pine oil ("tall oil") fatty acids and	No restrictions.
dimers	
- isophthalic (CAS 000121-91-5)	See "isophthalic acid", reference number 19150, in Part I.
- itaconic (CAS 000097-65-4)	No restrictions. (Reference 19270, in Part I).
- lactic (CAS 000050-21-5)	No restrictions. (Reference 19460, in Part I).
- lauric (CAS 000143-07-7)	No restrictions. (Reference 19470, in Part I).
- maleic (CAS 000110-16-7)	See "maleic acid", reference number 19540, in Part I.
- methacrylic (CAS 000079-41-4)	See "methacrylic acid", reference number 20020, in Part I.
- myristic (CAS 000544-63-8)	No restrictions. (Reference 22350, in Part I).
2,6-dimethyl naphthalene dicarboxylate (CAS 000840-65-3)	See "2,6-dimethyl naphthalene dicarboxylate", reference number 22390, in Part I.
- 2,6-naphthalenedicarboxylic (CAS 001141- 38-4)	See "2,6-naphthalenedicarboxylic acid" reference number 22360, in Part I.
- oleic (CAS 000112-80-1)	No restrictions. (Reference 22763, in Part I).

	- orthophthalic (CAS 000088-99-3)	No restrictions. (Reference 23200, in Part I).
	- palmitic (CAS 000057-10-3)	No restrictions. (Reference 22780, in Part I).
	- sebacic (CAS 000111-20-6)	No restrictions. (Reference 24280, in Part I).
	- succinic (CAS 000110-15-6)	No restrictions. (Reference 24820, in Part I).
	- tert-butylbenzoic (CAS 000098-73-7)	Only for use in coatings.
	- terephthalic (CAS 000100-21-0)	See "terephthalic acid", reference number 24910, in Part I.
	- trimellitic (CAS 000528-44-9)	See "trimellitic acid", reference number 25540, in Part I.
	2) Anhydrides	
	- acetic (CAS 000108-24-7)	No restrictions. (Reference 10150, in Part I).
	- azelaic (CAS 004196-95-6)	No restrictions. (Reference 12970, in Part I).
	- phthalic (CAS 000085-44-9)	No restrictions. (Reference 23380, in Part I).
	- maleic (CAS 000108-31-6)	See "maleic anhydride", reference number 19960, in Part I.
	- pyromellitic (CAS 000089-32-7)	See "pyromellitic anhydride", reference number 24057, in Part I.
	- sebacic (CAS 002561-88-8)	No restrictions. (Reference 24430, in Part I).
	- succinic (CAS 000108-30-5)	No restrictions. (Reference 24850, in Part I).
	3) Alcohols and polyepoxides	
	- alpha-methyl glucoside (CAS 000097-30-3)	No restrictions.
	- bisphenol A	See "bisphenol A", reference number 13480, in Part I.
	(=2,2-bis(4-hydroxyphenyl)propane) (=4,4-	
	isopropylidenediphenol)	
	(CAS 000080-05-7)	

-2.2-Bis(4-hydroxyphenyl)propane bis (2,3-	See "BADGE", reference number 13510, in Part I.
epoxypropyl) ether	
(=bisphenol A diglycidyl ether)	
(=BADGE)	
(CAS 001675-54-3)	
- 1,3-butanediol (=butylene glycol)	No restrictions. (Reference 13690, in Part I).
(CAS 000107-88-0)	
- 1,4-butanediol (CAS 000110-63-4)	See "1,4-butanediol", reference number 13720, in Part I.
- cetylic (=hexadecan-1-ol)	No restrictions. (Reference 18310, in Part I).
(CAS 036653-82-4)	
-1,4-cyclohexanedimethanol (=1,4-	No restrictions. (Reference 13390, in Part I).
bis(hydroxymethyl)cyclohexane)	
(CAS 000105-08-8)	
- decylic (= 1-decanol) (CAS 000112-30-1)	No restrictions. (Reference 15100, in Part I).
- diethylene glycol (CAS 000111-46-6)	See "diethylene glycol", reference number 15760, in Part I.
- 2,2'-dimethyl-1,3-propanediol (=neopentyl	See "2,2'-dimethyl-1,3-propanediol", reference number 16390, in Part I.
glycol)(CAS 000126-30-7)	
- dipropylene glycol (CAS 000110-98-5)	No restrictions. (Reference 16660, in Part I).
- stearic (=1,3-octadecanoic alcohol) (CAS	Only for use in coatings.
000112-92-5)	
- ethylene glycol (CAS 000107-21-1)	See "ethylene glycol", reference number 16990, in Part I.
- glycerol (CAS 000056-81-5)	No restrictions. (Reference 18100, in Part I).
- 1,6-hexanediol (CAS 000629-11-8)	See "1,6-hexanediol", reference number 18700, in Part I.
- laurylic (CAS 000112-53-8)	Only for use in coatings.
- mannitol (CAS 000069-65-8 and 000087-78-5)	No restrictions.
- myristic (CAS 000112-72-1)	Only for use in coatings.

-1-nonanol (CAS 000143-08-8)	No restrictions. (Reference 22480, in Part I).
-1-octanol (CAS 000111-87-5)	No restrictions. (Reference 22600, in Part I).
-1-pentanol (CAS 000071-41-0)	No restrictions. (Reference 22870, in Part I).
-1-propanol (CAS 000071-23-8)	No restrictions. (Reference 23800, in Part I).
-2-propanol (CAS 000067-63-0)	No restrictions. (Reference 23830, in Part I).
-pentaerythritol (CAS 000115-77-5)	No restrictions. (Reference 22840, in Part I).
-dipentaerythritol (CAS 000126-58-9)	No restrictions. (Reference 16480, in Part I).
-polyethylene glycol (CAS 025322-68-3)	No restrictions. (Reference 23590, in Part I).
-polypropylene glycol (CAS 025322-69-4)	No restrictions. (Reference 23651, in Part I).
- 4,4'-isopropylidenediphenol polyoxypropylene	See "bisphenol A", reference number 13480 and "propylene oxide", reference
ethers	number 24010, in Part I.
-propylene glycol (=1,2-propanediol)	No restrictions. (Reference 23740, in Part I).
(CAS 000057-55-6)	
-sorbitol (CAS 000050-70-4)	No restrictions. (Reference 24490, in Part I).
-triethylene glycol (CAS 000112-27-6)	No restrictions. (Reference 25510, in Part I).
-trimethylolethane (CAS 000077-85-0)	No restrictions.
-1,1,1-trimethylolpropane (CAS 000077-99-6)	See "1,1,1-trimethylolpropane", reference number 25600, in Part I.
	No restrictions
4)	
 4) Crosslinking agents	
- n-butyl acrylate (CAS 000141-32-2)	See "n-butyl acrylate", reference number 10780, in Part I.
- 2-ethylhexyl acrylate (CAS 000103-11-7)	See "2-ethylhexyl acrylate", reference number 11500, in Part I.
- ethyl acrylate (CAS 000140-88-5)	See "ethyl acrylate", reference number 11470, in Part I.
- methyl acrylate (CAS 000096-33-3)	See "methyl acrylate", reference number 11710, in Part I.
- alpha-methyl styrene (= vinyl toluene) (CAS 000098-83-9)	See "alpha-methyl styrene", reference number 22210, in Part I.

	-styrene (CAS 000100-42-5)	No restrictions. (Reference 24610, in Part I).
	- butyl methacrylate (CAS 000097-88-1)	See "butyl methacrylate", reference number 20110, in Part I.
	- methyl methacrylate (CAS 000080-62-6)	See "methyl methacrylate", reference number 21130, in Part I.
	- triglycidyl isocyanurate (CAS 002451-62-9)	Only for use as coating in containers for solid dry food in bulk.
	Polymers of one or more of the following	
	listed in Part I:	
	- 2-hydroxypropyl methacrylate (CAS 000923-26- 2).	SML(T) = 6 mg/kg (19)
	- 5-methylidenebicyclo[2.2.1]hept-2-ene (=5- methylene-2-norbornene) (=5-methylidenecyclo- 2,2,1-hept-2-ene)	The molar ratio not exceeding 5% 5-ethylidene-2-norbornene and/or 5- methylene-2-norbornene in the polymer.
	(CAS 000694-91-7).	
000092-71-7	Poly(phenylene oxide)	See "2,6-dimethylphenol", reference number 16360, in Part I.
	Polyurethanes obtained by the reaction of the following compounds:	
	a) polyesters authorized by this Regulation;	
	b) alcohols, isocyanates and other compounds authorized under this Regulation.	For isocyanates CL(T) = 1 mg/kg in FP or SML(T) = ND (DL = 0.01 mg/kg) (expressed as isocyanate group) (11)
009003-39-8	Polyvinylpyrrolidone	Only for use in adhesives.
063393-89-5	Coumarone-indene resin	Only for use in adhesives and coatings.

	Melamine-formaldehyde resin, modified or not with	See "formaldehyde", reference number 17260, and "2,4,6-triamino- 1,3,5-triazine
	n-butanol.	(= melamine)", reference number 25420, in Part I.
068002-18-6	Iso-butylated urea-formaldehyde resin	Only for use in adhesives and coatings.
		See "formaldehyde", reference number 17260, in Part I.
	Urea-formaldehyde resins, modified or not with	Only for use in coatings.
	one or more of the following substances:	See "formaldehyde", reference number 17260, in Part I.
	- dodecylbenzenesulfonic acid (CAS 027176-87-0)	No additional restrictions.
	- amines mentioned in the item "Epoxy Resins"	See the corresponding restrictions on amines mentioned in Part V, item "Epoxy
	- 1-butanol (CAS 000071-36-3)	Resins".
		No additional restrictions. (Reference 13840, in Part I).
	- ethanol (CAS 000064-17-5)	No additional restrictions. (Reference 16780, in Part I).
	- isobutanol (=2-methyl-1-propanol)	No additional restrictions.
	(CAS 000078-83-1)	
	- methanol (CAS 000067-56-1)	No additional restrictions. (Reference 21550, in Part I).
	- 1-propanol (CAS 000071-23-8)	No additional restrictions. (Reference 23800, in Part I).
	- 2-propanol (=isopropanol) (=propan-2-ol) (CAS 000067-63-0)	No additional restrictions. (Reference 23830, in Part I).

Epoxy resins derived from:	Only for use in coatings, unless otherwise indicated.
	Specific migration restrictions of BADGE and derivatives do not apply to containers with a capacity greater than 10,000 I or to pipelines integrated into or connected with them.
	Coatings derived from glycidyl ethers of novolacs (compounds derived from phenol-formaldehyde) (= NOGE) may be used only in containers with a capacity greater than 10,000 I and in pipelines integrated into or connected with them.
- (alkoxy C10-C16)-2,3-epoxypropane (CAS 097707-52-4)	Only for use in coatings intended to come into contact with solid dry foods.
- epichlorohydrin (CAS 000106-89-8) and 4,4'-isopropylidenediphenol (=bisphenol A) (CAS 000080-05-7)	See "epichlorohydrin", reference number 16750, and "bisphenol A", reference number 13480, in Part I.
- epichlorohydrin (CAS 000106-89-8) and 4,4'- isopropylidenediphenol (= bisphenol A) (CAS 000080-05-7) reacted with drying vegetable oils and their fatty acids described in the Positive List of Additives for Food-Contact Plastics Materials.	See "epichlorohydrin", reference number 16750, and "bisphenol A", reference number 13480, in Part I.
- epichlorohydrin (CAS 000106-89-8) and 4,4'- isopropylidenediphenol (= bisphenol A) (CAS 000080-05-7), modified with one or more of the compounds mentioned below:	Only for use in coatings and thermoset articles. See "bisphenol A", reference number 13480, "epichlorohydrin", reference number 16750, "formaldehyde", reference number 17260, and "2,4,6-triamino- 1,3,5-triazine (= melamine)", reference number 25420, in Part I.
a) allyl glycidyl ether (CAS 000106-92-3)	

	b) tetrahydrophthalic anhydride (=THPA) (CAS	
	000085-43-8)	
	c) 1,2-epoxy-3-phenoxypropane (CAS	
	000122-60-1)	
	d) allyl ether of mono-, di-, or trimethylol phenol	
	e) 1,3-phenylenediamine (=m-phenylenediamine) (CAS 000108-45-2)	
	f) phenol-formaldehyde	
	g) glyoxal (=oxalaldehyde) (= diformal) (CAS 000107-22-2)	
	h) 4,4'-isopropylidenediphenol (CAS 000080-05- 7)	
	i) 4,4'-isopropylidenediphenol- formaldehyde	
-	j) melamine-formaldehyde	
	k) 4,4'-methylenedianiline (CAS 000101-77-9)	
	I) mixture of di- and tri-glycidyl esters, obtained by	Mass concentration of the base resin of epichlorohydrin/4,4'-
	the reaction of epichlorohydrin (CAS 000106-89- 8) with dimers and trimers of unsaturated C18 monobasic fatty acids, derived from animal and vegetable oils and fats.	isopropylidenediphenol not exceeding 50%; only for use in alcoholic beverage containers coatings with alcohol content less than or equal to 8% (v/v).

m) 2,2'-[(1-n oxy[1-(buto) oxymethyler (CAS 07103	nethylethylidene)bis[4,1- phenylene- xymethyl)-2,1-ethanediyl] ne]]bis-oxirane 33-08-4)	Only for use in coatings intended for contact with dry solid foods at a temperature below 38 $^\circ C$ .
n) 4,4'-sec-b	butylidene diphenol- formaldehyde	
o) urea-form	naldehyde	
- epichlorohy and 4,4'-isop (= bispheno with xylene-fr resins, with c resins obtain allyl ether of phenol and c	/drin (CAS 000106-89-8) propylidenediphenol I A) (CAS 000080-05-7), condensed formaldehyde or without the addition of ned by condensation of mono-, di-, or trimethylol capryl alcohol	<ul> <li>See "bisphenol A", reference number 13480, "epichlorohydrin", reference number 16750, and "formaldehyde", reference number 17260, in Part I.</li> <li>Xylene: SML=1.2 mg/kg.</li> <li>In the case of addition of resins obtained by condensation of allyl ether of monodi-, or trimethylol phenol and capryl alcohol, it may only be used as coating ir contact with:</li> <li>a) non-acidic aqueous foods; acidic aqueous foods, including low or high fat content oil-in-water emulsions; beverages containing up to 8% (v/v) alcohol; nonalcoholic beverages; and dry solid foods without surface fat or oil; at temperatures below or equal to 71°C;</li> <li>b) beverages with an alcohol content greater than 8% (v/v), at room temperature or below.</li> </ul>
- epichloroh isopropylide (bis(4-hydro 000079-970	nydrin (CAS 000106-89-8) and 4,4'- ene-di-o-cresol (= bisphenol C) (= 2,2- oxy-3- methylphenyl)propane) (CAS ))	See "epichlorohydrin", reference number 16750, in Part I.
- epichloroh	ydrin (CAS 000106-89-8) and	Only for use in adhesives.

4,4'-sec-butylidenediphenol (=bisphenol B) (= 2,2- bis(4-hydroxyphenyl)butane) (=4,4'-(1-methylpropylidene)bisphenol) (CAS 000077-40-7)	See "epichlorohydrin", reference number 16750, in Part I.
- epichlorohydrin (CAS 000106-89-8) and 4,4'-sec- butylidenediphenol (=bisphenol B) (=2,2-bis(4- hydroxyphenyl)butane) (=4,4'-(1 - methylpropylidene) bisphenol) (CAS 000077-40-7) reacted with drying vegetable oils and their fatty acids described in the Positive List of Additives for Food-Contact Plastic Materials.	See "epichlorohydrin", reference number 16750, in Part I.
<ul> <li>- epichlorohydrin (CAS 000106-89-8) and 4,4'-sec- butylidenediphenol (=bisphenol B) (= 2,2-bis(4- hydroxyphenyl)butane) (=4,4'-(1 - methylpropylidene) bisphenol) (CAS 000077-40- 7), modified with one or more of the compounds mentioned below: <ul> <li>a) allyl ether of mono-, di-, or trimethylolphenol</li> <li>b) phenol-formaldehyde</li> <li>c) 4,4'-isopropylidenediphenol- formaldehyde</li> <li>d) melamine-formaldehyde</li> <li>e) 4,4'-sec-butylidene diphenol formaldehyde</li> <li>f) urea-formaldehyde</li> </ul> </li> </ul>	See "epichlorohydrin", reference number 16750, "formaldehyde", reference number 17260, and "2,4,6-triamino-1,3,5-triazine (=melamine)", reference number 25420, in Part I.

	- glycidyl ethers formed by the reaction of phenol novolacs with epichlorohydrin (CAS 000106-89-8)	See "epichlorohydrin", reference number 16750, and "formaldehyde", reference number 17260, in Part I.
-	- epoxidized polybutadiene	See "butadiene", reference number 13630, in Part I.
	Reaction products of the abovementioned epoxy resins with:	Only for use in coatings. The restrictions of the epoxy-based resins mentioned above must be complied with, in addition to the specific restrictions for each type of reaction product.
	- 3-(aminomethyl)-3,5,5- trimethylcyclohexylamine (= 1-amino-3- aminomethyl-3,5,5- trimethylcyclohexane) (CAS 002855-13-2) reacted with phenol (CAS 000108-95-2) and formaldehyde (CAS 000050-00-0) in a 2.6:1.0:2.0 ratio	See "1-amino-3-aminomethyl-3,5,5-trimethylcyclohexane", reference number 12670 and "formaldehyde", reference number 17260, in Part I.
	- N-beta-(aminoethyl)-gamma- aminopropyltrimethoxysilane (CAS 001760-24-3)	Only for use in coatings for containers with a capacity greater than 2,000,000 I. For use as coating in contact with: a) non-acidic aqueous foods, including low or high fat content oil-in-water emulsions; acidic aqueous foods, including low or high fat content oil-in-water emulsions; and acidic and non-acidic aqueous foods containing fat or oil, including low or high fat content water-in-oil emulsions; under the following manufacture and storage conditions: hot fill, pasteurization, filling and storage at room temperature, and storage under refrigeration conditions. b) fats and oils with low moisture content, alcoholic and nonalcoholic beverages, bakery products and dry solid foods, under the following conditions: filling and storage at room temperature and

<ul> <li>benzyl alcohol (CAS 000100-51-6)</li> <li>3-(aminomethyl)-3,5,5- trimethylcyclohexylamine</li> </ul>	storage under refrigeration conditions (in all cases without heat treatment inside the container). N-beta-(aminoethyl)-gamma-aminopropyltrimethoxysilane must not be used in amounts greater than 1.3% by mass of the resin. No additional restrictions. (Reference 13150, in Part I). See "1-amino-3-aminomethyl-3,5,5-trimethylcyclohexane", reference number
(= 1-amino-3- aminomethyl-3,5,5- trimethylcyclohexane) (CAS 002855-13-2)	12670, in Part I.
- cyanoguanidine (=dicyandiamide) (CAS 000461- 58-5)	No additional restrictions.
- dibutyl phthalate (CAS 000084-74-2)	SML = 0.3 mg/kg. Not for use in coatings in contact with fatty foods.
- 3-diethylaminopropylamine (CAS 000104-78-9)	<ul> <li>Only for use in coatings for containers with a capacity greater than 2,000,000 I.</li> <li>For use as coating in contact with: <ul> <li>a) non-acidic aqueous foods, including low or high fat content oil-in-water emulsions; acidic aqueous foods, including low or high fat content oil-in-water emulsions; and acidic and non-acidic aqueous foods containing fat or oil, including low or high fat content water-in-oil emulsions; under the following manufacture and storage conditions: hot fill, pasteurization, filling and storage at room temperature, and storage under refrigeration conditions.</li> <li>b) fats and oils with low moisture content, alcoholic and nonalcoholic beverages, bakery products and dry solid foods, under the following conditions: filling and storage at room temperature and storage under refrigeration conditions (in all cases without heat treatment inside the container).</li> </ul> </li> </ul>

	3-diethylaminopropylamine must not be used in amounts greater than 6% by
	mass of the resin.
- diethylenetriamine (CAS 000111-40-0)	See "diethylenetriamine", reference number 15790, in Part I.
- diphenylamine (=N-phenylaniline) (CAS 000122- 39-4)	No additional restrictions.
- ethylenediamine (= 1,2-diaminoethane) (CAS 000107-15-3)	See "1,2 diaminoethane", reference number 15272, in Part I.
- isophthalic dihydrazide (CAS 002760-98-7)	No additional restrictions.
- 4,4'-methylenedianiline (CAS 000101-77-9)	To be used as coating in containers with a capacity equal to or greater than 3785 I for alcoholic beverages with an alcohol content equal to or lower than $8\%$ (v/v).
- N-oleyl-1,3-propanediamine (=N-oleyl- 1,3- diaminopropane) (CAS 007173-62-8)	Diethylaminoethanol content must not be higher than 10% by mass.
- mixture of 3-pentadecenylphenol (=cardanol) (CAS 037330-39-5) (obtained from the extract of cashew nut shell) reacted with formaldehyde (CAS 000050-00-0) and ethylenediamine (CAS 000107- 15-3) in a 1:2:2 ratio.	See "1,2 diaminoethane", reference number 15272, and "formaldehyde", reference number 17260, in Part I.
	<ul> <li>diethylenetriamine (CAS 000111-40-0)</li> <li>diphenylamine (=N-phenylaniline) (CAS 000122- 39-4)</li> <li>ethylenediamine (= 1,2-diaminoethane) (CAS 000107-15-3)</li> <li>isophthalic dihydrazide (CAS 002760-98-7)</li> <li>4,4'-methylenedianiline (CAS 000101-77-9)</li> <li>N-oleyl-1,3-propanediamine (=N-oleyl- 1,3- diaminopropane) (CAS 007173-62-8)</li> <li>mixture of 3-pentadecenylphenol (=cardanol) (CAS 037330-39-5) (obtained from the extract of cashew nut shell) reacted with formaldehyde (CAS 000050-00-0) and ethylenediamine (CAS 000107- 15-3) in a 1:2:2 ratio.</li> </ul>

1		
	<ul> <li>polyamine obtained by reaction under</li> </ul>	For use as coating in contact with food at a temperature not higher than room
	dehydrohalogenation conditions of chlorohydrin	temperature.
	diether of polyethylene glycol 400 with N-	
	octadecyltrimethylenediamine in a 1:2 molar	
	ratio	
	- polyethylene polyamine (CAS 068131-73-7)	To be used as coating in contact with food at a temperature not higher than 82°C.
	- salicylic acid (CAS 000069-72-7)	No additional restrictions. (Reference 24270, in Part I).
	- tin 2-ethylhexanoate (=tin octoate) (CAS 000301-10-0)	To be used up to 1% (w/w) of the coating in contact with food in the following conditions: hot fill or pasteurization below 66°C, filling and storage at room temperature, or storage under refrigeration or freezing conditions (in all cases without heat treatment inside the container).
	- styrene oxide (CAS 000096-09-3)	To be used as coating in containers with a capacity equal to or greater than 3785 liters for alcoholic beverages with an alcohol content lower than or equal to 8% (v/v).
	- tetraethylenepentamine (=TEPA) (CAS 000112-57-2)	No additional restrictions.
	- tetraethylenepentamine (=TEPA) (CAS 000112-57-2) reacted with equimolar amounts of fatty acids mentioned in this Technical Regulation.	No additional restrictions.

- tri(dimethylar 000090-72-2) acid groups of caprate, capry oil, stearate, is naphthenate, i ethylhexanoat	minomethyl) phenol (CAS and its salts obtained from the the following fatty acids salts: date, "tall oil" pine oil, soybean sodecanoate, linoleate, neodecanoate, octoate (=2- e), oleate, palmitate, resinate and	No additional restrictions.
- triethylenetet	tramine (=TETA) (CAS 000112-	No additional restrictions.
- trimellitic anh	ydride (CAS 000552-30-7)	See "trimellitic anhydride", reference number 25550, in Part I.
- trimellitic anh 7) with ethyler glycerol (CAS	ydride adduct (CAS 000552-30- ne glycol (CAS 000107-21-1) and 000056-81-5)	See "trimellitic anhydride", reference number 25550, "ethylene glycol", reference number 16990, and "glycerol", reference number 18100 in Part I.
- meta-xylylene benzenedimeth	ediamine (=1,3- nanamine) (CAS 001477-55-0)	See "1,3-benzenedimethanamine", reference number 13000, in Part I.
- para-xylylene benzenedimeth	diamine (= 1,4- nanamine) (CAS 000539-48-0)	Only to be used in coatings for tanks with a capacity greater than 2,000,000 I. For use as coating in contact with: a) non-acidic aqueous foods, including low or high fat content oil-in-water emulsions; acidic aqueous foods, including low or high fat content oil-in-water emulsions; and acidic and non-acidic aqueous foods containing fat or oil, including low or high fat content water-in-oil emulsions; under the following manufacture and storage conditions: hot fill, pasteurization, filling and storage at room temperature,

	storage conditions: hot fill, pasteurization, filling and storage at room temperature and storage under refrigeration conditions. b) fats and oils with low moisture content, alcoholic and non-alcoholic beverages bakery products and dry solid foods under the following conditions: filling and storage at room temperature, and storage under refrigeration conditions (in all cases withou heat treatment inside the container). Para-xylylenediamine must not be used in amounts greater than 0.6% by mass of the resin.
- aluminum butylate (=aluminum butoxide) (CAS 003085-30-1)	No additional restrictions.
- benzoic acid (CAS 000065-85-0)	See "benzoic acid", reference number 13090, in Part I
- polyamides obtained from dimerized vegetable oils and from the amines mentioned in the item: "Reaction products of the abovementioned epoxy resins with "	See existing restrictions for the corresponding amines.

- silanized silica, obtained by reaction of microcrystalline quartz with N-beta-(N- vinylbenzylamino)-ethyl-gamma- aminopropyltrimethoxy silane, hydrogen monochloride.	Only for use in coatings in contact with non-acidic aqueous foods, including low or high fat content oil-in-water emulsions and dry solid foods, at temperatures not higher than 88°C.
- succinic anhydride (CAS 000108-30-5)	No additional restrictions. (Reference 24850, in Part I).
Phenolic resins (novolacs and resoles) derived from formaldehyde and from:	For use in coatings. See "formaldehyde", reference number 17260, in Part I.
- alkyl (methyl, ethyl, propyl, isopropyl, butyl) phenols	No additional restrictions.
- phenyl o-cresol (=2- hydroxydiphenylmethane) (= 2- benzylphenol) (= 2- (phenylmethyl)phenol) (CAS 028944-41-4)	No additional restrictions.
- phenol (CAS 000108-95-2)	No additional restrictions. (Reference 22960, in Part I).
- 4,4'-isopropylidenediphenol (=bisphenol A) (CAS 000080-05-7)	See "bisphenol A", reference number 13607, in Part I.
- m-cresol (CAS 000108-39-4)	No additional restrictions.
- mixture of 3-pentadecenylphenol (= cardanol) (CAS 037330-39-5) obtained from the extract of cashew nut shell	No additional restrictions.
- o-cresol (CAS 000095-48-7)	No additional restrictions.
- p-cyclohexylphenol (CAS 001131-60-8)	No additional restrictions.
- p-cresol (CAS 000106-44-5)	No additional restrictions.

- p-phenylphenol (CAS 000092-69-3)	No additional restrictions.
- p-nonvintenci (CAS 068152-92-1)	No additional restrictions
- n-octylphenol (CAS 001806-26-4)	No additional restrictions
- n-tert-amylphenol (CAS 000080-46-6)	No additional restrictions
- p-tert-butylphenol (CAS 000098-54-4)	See "4-tert-butylphenol" reference number 14020 in Part I
4.4 ' and butylidene dinbonel (=biophonel B)	No additional restrictions
-4,4 -sec-bulyindene dipitenti (-bispitenti B)	
(-2,2-bis(4-involoxyphenyi)butane) (-4,4-(1-	
methypropylidene) bisphenol) (CAS 000077-40-	
7)	
- xylenol (CAS 001300-71-6)	No additional restrictions.
The aforementioned phenolic resins reacted with:	For use in coatings. The restrictions corresponding to the aforementioned
	phenolic resins shall be complied with.
- isopropyl alcohol (=propan-2-ol) (CAS 000067-	No additional restrictions. (Reference 23830, in Part I).
63-0)	
- 1-butanol (CAS 000071-36-3)	No additional restrictions. (Reference 13840, in Part I).
- aluminum butylate (=aluminum butoxide) (CAS	No additional restrictions.
003085-30-1)	
- ethanol (CAS 000064-17-5)	No additional restrictions. (Reference 16780, in Part I).
- methanol (CAS 000067-56-1)	No additional restrictions. (Reference 21550, in Part I).
- 1-propanol (CAS 000071-23-8)	No additional restrictions. (Reference 23800, in Part I).
Glycerophthalic resins derived from	See "isophthalic acid", reference number 19150, and "terephthalic acid", reference
glycerin (=glycerol) (CAS 000056-81-5), isomers of	number 24910, in Part I.
phthalic acid and vegetable oils mentioned in this	
Technical Regulation, modified or not with	See restrictions corresponding to other substances in Part I and Part V.
substances mentioned in item "Polyesters", Part V	
or Part I of this Technical Regulation.	

	Maleic resins, derived from maleic anhydride (CAS 000108-31-6) or maleic acid (CAS 000110- 16-7) with rosin (CAS 008050-09-7), modified or not with rosin acids (abietic acids and pimaric acids) (CAS 073138-82-6), and/or with other substances mentioned under the item "Polyesters" in Part V or Part I of this Technical Regulation.	See "maleic acid", reference number 19540, and "maleic anhydride", reference number 19960, in Part I. See the restrictions corresponding to other substances in Part I and Part V.
	Polyacetal resins:	
024969-25-3	<ul> <li>- copolymers of trioxane (= cyclic trimer of formaldehyde) and of ethylene oxide (=poly(ethylene co-trioxane oxide))</li> </ul>	See "ethylene oxide", reference number 17020, and "trioxane", reference number 25900, in Part I.
009002-81-7	-poly(oxymethylene) (=POM)	See "formaldehyde", reference number 17260, in Part I.
	Terpene resins derived from one or more of the following substances:	For use in coatings.
	-dipentene (= limonene) (CAS 000138-86-3)	No additional restrictions.
	- hydrogenated copolymer of alpha- pinene, beta- pinene and dipentene (CAS 106168-37-0)	Only for use in coatings in contact with non-acidic aqueous and acidic aqueous foods.
	- alpha-pinene (CAS 000080-56-8)	No additional restrictions.
	- beta-pinene (CAS 000127-91-3)	No additional restrictions.
	- hydrogenated dipentene resin (CAS 106168-39-	Only for use in coatings in contact with non-acidic aqueous and acidic aqueous
	2)	foods.

	Silicones:	
	a) for general use:	
	- polysiloxanes (Si) with methyl groups	No restrictions.
	- polysiloxanes (Psi) with methyl and phenyl	No restrictions.
	groups	
	- polysiloxanes (Vsi) with methyl and vinyl	No restrictions.
	groups	
	- polysiloxanes (Fsi) with methyl and fluoride	No restrictions.
	groups	
	- polysiloxanes (PVsi) with phenyl, methyl and	No restrictions.
	vinyl groups	
	b) for use in adhesives:	
	- poly(diethylsiloxane) (=diethyl polysiloxane)	No additional restrictions.
	<ul> <li>poly(diphenylsiloxane) (=diphenyl polysiloxane)</li> </ul>	No additional restrictions.
	<ul> <li>poly(dihydrogensiloxane) (=dihydrogen polysiloxane)</li> </ul>	No additional restrictions.
009016-00-6	- poly(dimethylsiloxane) (=dimethyl polysiloxane)	No additional restrictions.
	-poly(ethyl phenylsiloxane) (= ethyl phenyl polysiloxane)	No additional restrictions.
	<ul> <li>poly(ethyl hydrogensiloxane) (=ethyl hydrogen polysiloxane)</li> </ul>	No additional restrictions.
	- Poly(phenyl hydrogensiloxane) (=phenyl hydrogen polysiloxane)	No additional restrictions.
	- poly(methyl ethylsiloxane) (=methyl ethyl polysiloxane)	No additional restrictions.

002116-84-9	-poly(methylphenylsiloxane) (=methyl phenyl	No additional restrictions.
063148-57-2	<ul> <li>polysiloxane)</li> <li>poly(methyl hydrogen siloxane) (=methyl hydrogen polysiloxane)</li> </ul>	No additional restrictions.
	c) for use in coatings:	
009016-00-6	- poly(dimethylsiloxane) (=dimethyl polysiloxane)	No additional restrictions.
002116-84-9	-poly(methylphenylsiloxane) (=methyl phenyl polysiloxane)	No additional restrictions.
063148-57-2	- poly(methyl hydrogen siloxane) (=methyl hydrogen polysiloxane)	No additional restrictions.
	- polysiloxanes obtained from the reaction with platinum catalyst from: dimethyl-methylvinyl polysiloxane with terminal vinyl groups (CAS 068083-18-1) and dimethyl polysiloxane with terminal vinyl groups (CAS 068083-19-2) with methyl hydrogen polysiloxane (CAS 063148- 57-2) and dimethyl methylhydrogen polysiloxane (CAS 068037-59-2). The following substances may be optionally used as polymerization inhibitors:	The platinum content shall not be higher than 150 mg/kg.
	a) bis(methoxymethyl)ethyl maleate (CAS 102054-10-4), in concentration not exceeding 1% (w/w);	

b) 3,5-dimethyl-1-hexyn-3-ol (CAS 000107-54-	
0), in concentration not higher than 0.53% (w/w);	
c) 1-ethynylcyclohexane (CAS 000931-49-7) in	
concentration not higher than 0.64% (w/w);	
d) methylvinyl cyclosiloxane (CAS	
0068082-23-5);	
e) tetramethyltetravinylcyclotetrasiloxane (CAS	
002554-06-5)	
- polysiloxanes obtained from the reaction with	The platinum content must not exceed 100 mg/kg.
platinum catalyst from: dimethyl-methylvinyl	For use as polyolefin coatings:
polysiloxane with terminal vinyl groups (CAS	a)in contact with non-acidic aqueous foods; aqueous acidic foods, including low or
068083-18-1) and dimethyl polysiloxane with	high fat content oil-in-water emulsions; alcoholic and non-alcoholic beverages;
terminal vinyl groups (CAS 068083-19-2) with	and moisture bakery products with no fat or oil on their surface; without heat
methyl hydrogen polysiloxane (CAS 063148-57-	treatment inside the package, and stored at room temperature or under
2).	refrigeration or freezing conditions;
The following substances may be optionally used	b)in contact with non-acidic aqueous food or acidic aqueous foods, containing fat
as polymerization inhibitors:	or oil, including low or high fat content water-in-oil emulsions; with dairy and
a) dimethyl maleate (CAS 000624-48-6)	modified foods (high or low fat water-in-oil emulsions or oil-in-water emulsions);
b) vinyl acetate (CAS 000108-05-4)	with low moisture content fatty foods; with moisture bakery products with fat or oil
	on their surface and dry solid foods with or without fat or oil on their surface; under
	the following conditions: sterilization at a temperature of 100 $^\circ\!$
	pasteurization; hot filling; storage at room temperature, refrigeration or freezing;
	heating inside the package prior to consumption.

-polysiloxanes o platinum catalys polysiloxane with 068083-18-1) ar terminal vinyl gru methyl hydroger 57-2), they may 068855-60-7) as The following su used as polymer a)diallyl maleate b)dibutyl maleate d)vinyl acetate (f	bbtained from the reaction with at of: dimethyl-methylvinyl h terminal vinyl groups (CAS and dimethyl polysiloxane with oups (CAS 068083-19-2) with a polysiloxane (CAS 063148- contain C16-C18 olefins (CAS a detaching control agents ubstances may be optionally rization inhibitors: a (CAS 000999-21-3) ce (CAS 000105-76-0) cate (CAS 000108-05-4) cas 000108-05-4)	Platinium content shall not be higher than 100 mg/kg. Only for use as detachment coating in pressure-sensitive adhesives.