

4MS GROUP
COMBINED POSITIVE LIST
Of Organic Substances in Contact with Drinking Water

Introduction

An essential element of the regulatory arrangements for control of the hygienic performance of products in contact with drinking water is the examination and approval of the inputs and constituents that go to make up products. The 4MS Group has agreed procedures for the evaluation of organic substances in use in products in its report “Positive Lists for Organic Materials” published in December 2011. This Report sets out the process to be followed for the assessment and acceptance of substances.

This approach will be used for all new substances being brought forward for approval, but provision needs to be made to rationalise and agree for common use substances that appear on the existing Positive Lists in use in France, Germany and the Netherlands. This document indicates how this is to be achieved.

The Combined Positive List

The first step is the creation of a single “Combined” list of all the substances that currently appear on national lists, which appear not in the Commission Regulation No 10/2011. This List is reproduced in this document. The items on this Combined List remain accepted for use in the countries where they are currently approved.

Note: Dyes and pigments currently used in France, Germany and the Netherlands are not included in the Combined List.

Creation of “Core Lists”

The plan for the future is to identify in the Combined List substances which are assessed by Member States according to the criteria for approval set out in the 4MS Common Approach for “Positive lists for organic materials”. The result of this assessment is stipulated in an Opinion. Following agreement on the Opinion by the other Member States the approved substance will be scheduled in the relevant 4MS Core List (plastics, rubber products, coatings or lubricants Core List).

New items assessed and approved from today will appear directly in the relevant Core List.

Transitional Period

A transitional period of five years from today has been fixed by the 4MS for this review exercise to give time to the manufacturers to deliver an application dossier according to the 4MS Common Approach “Positive Lists for Organic Materials” which will allow the insertion of a substance in one of the 4MS Core Lists. During this period items will be either:

- Reviewed and agreed for inclusion on the relevant 4MS Core List

- Reviewed, found not to meet the requirements for approval, and deleted
- Deleted as no longer in use.

Thus the Core Lists used in common by the 4MS will grow during this period and the number of substances approved for use in only one country will diminish. At the end of the five year period all individual national lists are in accordance with the 4 MS Core Lists and the Combined List will be withdrawn.

National Lists

In the transitional period National Lists will have to distinguish between substances that are approved nationally and substances listed on the 4MS Core Lists.

Publication

As the transitional process proceeds, updated versions of the Combined and Core Lists will be made public. 4MS information will appear on its web site, and also at national level alongside existing information sources.

4MS COMBINED LIST OF MONOMERS, OTHER STARTING SUBSTANCES, ADDITIVES, PPAs AND APs FOR ORGANIC PRODUCTS COMING INTO CONTACT WITH DRINKING WATER - 27 June 2012

PM/REF No	CAS No	NAME	Use as additive or PPA	Use as monomer or other starting substance	Material	Technological function	MTC [mg/l]	MTC(T) [mg/l] (Group restriction)	Restrictions and specification	Auth. MS
31300	-	acids, aliphatic, saturated (C6-C24), esters with alcohols, aliphatic, monohydric, saturated (C2-C24) and oleyl alcohol	yes		rubber	dispersive agent				Fr
-	-	acrylic acid, esters with alcohols, monohydric, aliphatic, saturated, C1-C18		yes	coatings	monomer	0,3			NL
32920	-	adipic acid, esters with alcohols, monohydric, aliphatic, primary, saturated, (C6-C12)	yes	yes	plastics	plasticizer				NL
-	-	alcohols, monohydric, primary, unbranched, saturated C4-C22	yes		plastics	lubricant				NL
-	-	alkadienes (C3-C8)		yes	coatings	monomer				NL
-	-	1-alkene (C2-C8)		yes	coatings	monomer				NL
-	-	alkyl(C8-C18)benzene sulfonates, sodium salts	yes		plastics, rubber	emulsifier		1,5	MTC(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration levels of the sodium salts of alkyl(C8-C18)benzene sulfonates, alkyl(C8-C18)naphthalene sulfonates, alkyl(C8-C18)sulfates and alkyl(C8-C18)sulfonates	NL
-	-	alkyl(C8-C18)naphthalene sulfonates, sodium salts		yes	plastics	emulsifier		1,5	MTC(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration levels of the sodium salts of alkyl(C8-C18)benzene sulfonates, alkyl(C8-C18)naphthalene sulfonates, alkyl(C8-C18)sulfates and alkyl(C8-C18)sulfonates	NL
-	-	alkyl(C8-C18)sulfates, sodium salts	yes		plastics, rubber, coatings	emulsifier, dispersant		1,5	MTC(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration levels of the sodium salts of alkyl(C8-C18)benzene sulfonates, alkyl(C8-C18)naphthalene sulfonates, alkyl(C8-C18)sulfates and alkyl(C8-C18)sulfonates	NL
-	-	alkyl(C8-C18)sulfonates, sodium salts		yes	plastics, rubber	emulsifier		1,5	MTC(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration levels of the sodium salts of alkyl(C8-C18)benzene sulfonates, alkyl(C8-C18)naphthalene sulfonates, alkyl(C8-C18)sulfates and alkyl(C8-C18)sulfonates	NL
-	-	alkyl(C6-C20)sulfonates, sodium, potassium and ammonium salts	yes		rubber	lubricant				Fr
-	007446-70-0	aluminium trichloride	yes		plastics	catalyst				NL
-	-	amides of behenic and ricinoleic acid	yes		coatings					Fr
-	-	amide of aliphatic carboxylic acids, C8-C22	yes		silicone	emulgator			QM = 1,5%	D
34960	-	3-aminocrotonic acid, esters with butyleneglycol	yes		coatings					Fr
35040	-	3-aminocrotonic acid, esters with mono- or dihydric alcohols	yes		coatings					Fr
-	001760-24-3	[3-(2-aminoethyl)aminopropyl]trimethoxysilane		yes			0,0001			NL
-	-	2-aminoethylcarbamate		yes	rubber	accelerator	0,0001			NL
-	-	6-aminoethylcarbamate	yes	yes	rubber	vulcanisation agent	0,0001			NL
12775	000124-68-5	2-amino-2-methyl-1-propanol	yes		rubber	buffering agent				Fr
-	001066-33-7	ammonium bicarbonate	yes		coatings					NL
-	002235-54-3	ammonium laurylsulfate	yes		coatings					Fr
-	-	amylose	yes		coatings	initiator				Fr
-	025551-14-8	1,1'-azobis(1-cyclohexanecarbonitrile)	yes		plastics					NL
-	000078-67-1	2,2'-azobis(isobutyronitrile)	yes		plastics	initiator				NL
36640	000123-77-3	azodicarbamide	yes		rubber	blowing agent				Fr
-	007727-43-7	barium sulfate	yes		silicone/coatings		0,05			NL,Fr
-	-	basic oils in the lubricant guideline		yes	lubricants					D
12980	008015-74-5	beechnut oil		yes	coatings	monomer				Fr
37520	002634-33-5	1,2-benzisothiazolin-3-one	yes		rubber/silicone	antifoaming	0,06		Fr : SML = 1,2 mg/kg and QM = 0,02 %	Fr
-	-	benzoylperoxide		yes	silicone	aids to polymerization				D
-	015484-34-1	bis(4-aminocyclohexyl)methane carbamate	yes		rubber	accelerator	0,0001			NL, Fr
-	015520-11-3	bis(4-tert-butylcyclohexyl)peroxy dicarbonate	yes		plastics	initiator	0,0001			NL
-	-	2,2-bis(3-tert-butyl-4-hydroxyphenyl)propane esterified with p-nonyl phenyl phosphite	yes	yes	rubber	protecting agent	0,0001			NL
-	002167-23-9	2,2-bis(tert-butylperoxy)butane	yes		plastics	aids to polymerization				D
-	026511-61-5	3,3-bis(tert-butylperoxy)butyric acid, n-butyl ester	yes		rubber	mesh and netting agent	0,0001			NL
38600	000078-63-7	2,5-bis(tert-butylperoxy)-2,5-dimethylhexane		yes	rubber, plastics	vulcanisation agent, aids to polymerization	0,0001			NL, D, Fr
-	001068-27-5	2,5-bis(tert-butylperoxy)-2,5-dimethyl-3-hexyne			plastics	aids to polymerization	0,0001			NL, D
38615	002212-81-9	1,3-bis(tert-butylperoxyisopropyl)benzene		yes	rubber, plastics	vulcanisation agent, aids to polymerization	0,0001			NL, Fr, D
38625	002781-00-2	1,4-bis(tert-butylperoxyisopropyl)benzene	yes		plastics	visc. contr. agent	0,0001			NL
-	000094-17-7	bis(4-chlorobenzoyl) peroxide	yes		rubber	vulcanisation agent				Fr
-	171090-93-0	3,5-bis(1,1-dimethylethyl)-4-hydroxybenzenepropanoic acid, C13-C15 branched and		yes						NL
-	016111-62-9	bis(2-ethylhexyl)peroxy dicarbonate	yes		plastics	initiator	0,0001			NL
-	-	N,N'-bis(2-hydroxyethyl)alkyl(C8-C18)amine	yes	yes	plastics	lubricant, antistatic	0,06			NL
-	-	bis(2-hydroxy-3-nonyl-5-methylphenyl)methane	yes	yes	rubber	protecting agent	0,0001			NL
-	-	bis(2-hydroxy-3-tert-octyl-5-methylphenyl)methane	yes	yes	rubber	protecting agent	0,0001			NL
-	054208-63-8	bis(2-hydroxyphenyl)methane bis(2,3-epoxypropyl) ether (=BFDGE)		yes	coatings	epoxy resin	0,0025			NL
-	-	bis(isopropyl xanthogen) tetrasulphide	yes		rubber					Fr
-	-	bis(4-methoxyphenyl)amine	yes	yes	rubber	protecting agent	0,0001			NL
39920	000085-60-9	bis(2-methyl-4-hydroxy-5-tert-butylphenyl)butane	yes		rubber	antioxidant	0,015			NL
-	052829-07-9	bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate	yes		plastics	lubricant	0,3			NL
-	007637-07-2	boron trifluoride	yes		plastics, rubber	catalyst	0,05		MTC expressed as boron	NL
40430	000109-63-7	boron trifluoride etherate	yes		plastics		0,05		MTC expressed as boron	NL
-	007726-95-6	bromine	yes		rubber	polymer modifier				Fr
40594	000075-65-0	tert-butanol	yes		coatings	solvent				Fr
40630	002782-40-3	N-butylbenzamide	yes							Fr
-	000095-31-8	N-tert-butyl-2-benzothiazolesulphenamide	yes		rubber	accelerator	0,0001			NL, Fr
40640	000098-29-3	4-tert-butylcatechol	yes		silicone/coatings					Fr
-	003457-61-2	tert-butyl cumyl peroxide	yes		silicone/coatings	aid to polymerization				Fr, D
-	000142-77-8	butyloleate	yes		rubber	plasticizer				NL
-	000107-71-1	tert-butyl peroxy acetate	yes		plastics	initiator	0,0001			NL
-	000614-45-9	tert-butyl peroxy benzoate	yes		plastics	initiator	0,0001			NL
-	026748-41-4	tert-butyl peroxy-2,2-dimethyloctanoate	yes		plastics	initiator	0,0001			NL
-	003006-82-4	tert-butyl peroxy-2-ethylhexanoate	yes		plastics	initiator	0,0001			NL
-	000927-07-1	tert-butyl peroxy pivalate	yes		plastics	initiator	0,0001			NL
-	013122-18-4	tert-butyl peroxy-3,5,5-trimethyl hexanoate	yes		plastics	initiator	0,0001			NL
-	000088-18-6	2-tert-butylphenol		yes	plastics		0,0001			NL
-	000136-51-6	calcium bis(2-ethylhexanoate) (= calcium octoate)	yes		plastics					Fr
-	000471-34-1	calcium carbonate	yes		plastics	other additives				NL
41200	007789-75-5	calcium fluoride	yes		plastics					NL
-	006107-56-8	calcium octanoate		yes	rubber	drying agent				NL
-	001344-95-2	calcium silicate	yes		rubber	other additives				NL
-	001592-23-0	calcium stearate	yes		rubber	plasticizer, other add.				NL

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42240	-	carbon fibers	yes		plastics, silicone, coatings, rubber	filler				Fr, D
-	008007-24-7	cashew nutshell liquid		yes	coatings	monomer	0,0025			D
14453	061790-39-4	castor oil fatty acids, hydrogenated		yes	coatings	monomer				Fr
14505	009004-35-7	cellulose acetate		yes	coatings	monomer				Fr
14512	009004-39-1	cellulose acetate propionate		yes	coatings	monomer				Fr
-	000126-99-8	2-chloro-1,3-butadiene	yes		rubber	monomer	0,0025			NL
14587	001204-28-0	4-(chloroformyl)phthalic anhydride		yes	coatings	monomer	0,0025			Fr
-	026172-55-4	5-chloro-2-methyl-4-isothiazolin-3-one	yes		silicone, coatings		0,0005			Fr
-	010025-73-7	chromium(III)chloride	yes		plastics	catalyst	0,005		MTC expressed as chromium	NL
-	011118-57-3	chromium oxide	yes		plastics	catalyst	0,005		MTC expressed as chromium	NL
-	006147-53-1	cobalt(II) acetate tetrahydrate	yes		plastics		0,005		MTC expressed as cobalt	NL
14685	008001-31-8	coconut oil		yes	coatings	monomer				Fr
-	-	condensation products of ethylene oxide with alcohols (C3-C18), phenolalkyl (C4-C9), and their sulphonated, sulphurated or phosphated derivated.	yes		rubber	dispersive agent				Fr
-	-	condensation products of ethylene oxide and/or propylene oxide with ethylenediamine, molecular weight > 12,000		yes	plastics	emulsifier				NL
-	-	condensation products of ethylene oxide and/or propylene oxide with mono or polyalcohol (C8-C18)	yes		rubber	dispersive agent				Fr
-	-	condensation products of ethylene oxide with alkyl-, dialkyl- and trialkylamines (C12-C18)	yes		rubber	dispersive agent				Fr
-	-	condensation products of formaldehyde melamine modified or not with one or more products below : butanol, triamine diethylene, ethanol, tetraminetriethylene, pentaminetetraethylene, tris-(2-hydroxyethyl) amine, 3,3'-doamino dipropylamine, 4,4'-diaminodibutylamine	yes		coatings	anchorage agent				Fr
-	-	condensation product of formaldehyde urea modified or not with one or more products below : aminoethylsulfonic acid, sulfanilic acid, butanol, diaminobutane, diaminodiethylamine, diaminodipropylamine, diaminopropane, diethylenetriamine, ethanol, guanidine, methanol, tetraethylenepentamine, triethylenetetramine, sodium	yes		coatings	anchorage agent				Fr
-	-	condensation products of melamine - urea - modified formaldehyde and tris-(2-hydroxyethyl)amine	yes		coatings	anchorage agent				Fr
-	-	copolymers of acrylic acid, methacrylic acid, and maleic acid with styrene, methyl vinyl ether, vinyl versatate and butadiene, and their ammonium, potassium and sodium salts (MW > 1000)	yes		rubber	thickener				Fr
-	-	copolymers of ethylene and vinyl acetate, acrylic acid or maleic anhydride	yes		coatings	anchorage agent				Fr
-	-	copolymers of maleic acid anhydride and vinylmethyl ether		yes	plastics	emulsion stabilizer				NL
-	004180-12-5	copper acetate	yes				0,2		MTC expressed as copper	NL
-	001184-64-1	copper carbonate	yes				0,2		MTC expressed as copper	NL
-	007681-65-4	copper(I) iodide	yes				0,05		MTC expressed as iodide	NL
14693	008001-30-7	corn oil	yes	yes	coatings					Fr
14698	008001-29-4	cottonseed oil		yes	coatings					Fr
-	-	coumarone-indene resins		yes	rubber	plasticizer	0,0001			NL
-	063393-89-5	coumarone-indene, copolymer	yes				0,0001			NL
-	000095-33-0	N-cyclohexyl-2-benzothiazolesulphenamide	yes		rubber	accelerator	0,0001			NL, Fr
-	004442-85-7	cyclohexylethylamine	yes		rubber	accelerator				Fr
-	001631-25-0	N-cyclohexylmaleimide		yes	rubber	monomer	0,0001			NL
-	000110-29-2	n-decyl-n-octyl adipate	yes		rubber	plasticizer	0,0001			NL
-	-	diacyl(C8-C14) peroxides	yes	yes	plastics	initiator	0,0001			NL
-	-	dialkyldithiocarbamic acid, sodium salt	yes		rubber	accelerator				Fr
96080	-	dialkyldithiocarbamic acid, zinc salt	yes		rubber	accelerator				Fr
-	-	dialkyl(C4-C16) sulphosuccinates, sodium salts		yes	plastics	emulsifier				NL
13250	000101-77-9	4,4'-diaminodiphenylmethane	yes	yes	coatings	monomer	0,0001			NL, Fr
-	009046-10-0	diaminopolypropylene glycol	yes		coatings	hardener	0,0025			NL
-	068953-84-4	N,N'-diaryl-1,4-phenylenediamine	yes		rubber	protecting agent	0,0001			NL
-	-	1,3:2,4-dibenzaldehydesorbitol	yes	yes	plastics					NL
46400	000120-78-5	2,2'-dibenzothiazyl disulfide	yes		rubber	accelerator		0,15	MTC(T) in this specific case means that the restriction shall not be exceeded by the sum of the migrations levels of 2,2'-dibenzothiazyl disulfide, mercaptobenzothiazole, 2-(4-morpholino)thiobenzothiazole and zinc mercaptobenzothiazole	NL, Fr
46440	000094-36-0	dibenzoyl peroxide		yes	plastics, rubber, silicon	aids to polymerization, vulcanisation agent	0,0001			NL, Fr, D
-	002568-90-3	dibutoxymethane (butylal)	yes		plastics					NL
-	181314-48-7	5,7-di-tert-butyl-3-(3,4-dimethylphenyl)-3H-benzofuran-2-one	yes				0,25			NL
-	000136-30-1	dibutyldithiocarbamic acid, sodium salt	yes		rubber	accelerator				Fr
-	000087-97-8	2,6-di-tert-butyl-4-(methoxymethyl)phenol	yes		rubber	protecting agent	0,0001			NL
47080	000110-05-4	di-tert-butyl peroxide		yes	plastics, rubber	aids to polymerization, vulcanisation agent	0,0001			NL, Fr, D
-	-	1,1-di-tert-butylperoxy-3,3,5-trimethylcyclohexane	yes	yes	plastics	initiator	0,0001			NL
-	002668-47-5	2,6-di-tert-butyl-4-phenylphenol	yes	yes	rubber	protecting agent	0,0001			NL
-	-	dibutyltin diacetate	yes		silicone/coatings	catalyst				Fr
-	-	dibutyltin dilaurate	yes		silicone/coatings	catalyst				Fr
-	004253-22-9	dibutyltin sulfide	yes				0,002			NL
-	-	α,ω-dicarboxylic acids (C6-C12), aliphatic, unbranched		yes						NL
-	026322-14-2	dicetylperoxy dicarbonate	yes		plastics	initiator	0,0001			NL
-	000133-14-2	2,4-dichlorobenzoyl peroxide		yes	silicone/coatings	crosslinking agent	0,0001			NL, Fr, D
15580	001653-19-6	2,3-dichloro-1,3-butadiene	yes		rubber	monomer				Fr
-	001717-00-6	1,1-dichloro-1-fluoroethane	yes		plastics/coatings	expanding agent				Fr
66620	000075-09-2	dichloromethane	yes		rubber/coatings					Fr
-	000080-43-3	dicumyl peroxide		yes	plastics, rubber	aids to polymerization, vulcanisation agent	0,0001			NL, Fr, D
-	001561-49-5	dicyclohexyl peroxydicarbonate	yes		plastics	initiator	0,0001			NL
15730	000077-73-6	dicyclopentadiene		yes	rubber	monomer	0,0025			NL
-	000105-97-5	di-n-decyl adipate	yes		rubber	plasticizer	0,0001			NL
48030	000112-34-5	diethylene glycol monobutyl ether (DEGBE)	yes		silicone/coatings		0,15			Fr
-	000140-01-2	diethylenetriaminepentaacetic acid pentasodium salt	yes			dispersive agent				NL
-	003710-84-7	N,N-diethylhydroxylamine	yes		rubber	other additives	0,0025			NL
-	068479-98-1	diethylmethylbenzenediamine	yes							Fr
-	000105-55-5	N,N'-diethylthiourea	yes		rubber	accelerator	0,0001			NL

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-	000109-31-9	dihexyl azelate	yes							Fr
48560	036265-41-5	dihydro-1,4-dimethyl-2,6-dicarbododecyloxy-3,5-pyridine	yes		plastics	stabilizer				Fr
-	001047-16-1	5,12-dihydroquino(2,3-b)acridine-7,14-dione	yes							NL
49040	001115-01-1	9,10-dihydroxystearic acid, methyl ester	yes		plastics	lubricant				Fr
-	000105-64-6	diisopropyl peroxydicarbonate	yes		plastics	initiator	0,0001			NL
-	000109-87-5	dimethoxymethane	yes		plastics					NL
49120	003271-22-5	2,4-dimethoxy-6-(1-pyrenyl)-1,3,5-triazine	yes		plastics	azurant				NL
49225	000124-40-3	dimethylamine	yes		rubber/coatings		0,003			Fr
49235	000188-01-0	dimethylaminoethanol	yes		coatings		0,9			Fr
-	007005-47-2	2-dimethylamino-2-methyl-1-propanol	yes							Fr
-	-	di(4-methylbenzoyl)peroxide		yes	rubber, silicone	vulcanisation agent, crosslinking agent				D
-	000793-24-8	N-(1,3-dimethylbutyl)-N'-phenyl-p-phenylenediamine	yes		rubber	antioxidant	0,0025		QM = 1,5 %	NL, Fr
-	-	dimethyldialkyl(C16 and/or C18)ammoniumacetate	yes		plastics					NL
-	000078-63-7	2,5-dimethyl-2,5-di(tert-butylperoxy)hexane	yes		plastics, rubber	visc. contr. agent, vulcanizing agent	0,0001			NL
-	001068-27-5	2,5-dimethyl-2,5-di(tert-butylperoxy)hexane-3	yes		plastics		0,0001			NL
-	053880-86-7	dimethyldiphenylthiuram disulphide	yes		rubber	accelerator	0,05			NL, Fr
-	000137-29-1	dimethyldithiocarbamic acid, copper salt	yes		rubber	accelerator				Fr
-	000128-04-1	dimethyldithiocarbamic acid, sodium salt	yes		rubber	accelerator				Fr
-	000137-30-4	dimethyldithiocarbamic acid, zinc salt	yes		rubber	accelerator				Fr
-	000068-12-2	N,N-dimethylformamide	yes				0,025			NL
-	000102-78-3	2,6-dimethylmorpholine-2-thiothiazole	yes		rubber	accelerator	0,0001			NL
-	053220-22-7	dimyristyl peroxydicarbonate	yes		plastics	initiator	0,0001			NL
50080	003806-34-6	dioctadecyl pentaerythritol diphosphite	yes		plastics	stabilizer				NL, Fr
-	000117-84-0	di-n-octyl phthalate	yes		plastics, rubber, coatings	plasticizer	0,11			NL
-	000122-62-3	di-n-octyl sebacate	yes		plastics, rubber	plasticizer	0,0001			NL
91680	000577-11-7	dioctyl sodium sulfosuccinate	yes		plastics					Fr
-	-	di-n-octyltin(maleic acid half ester), prepared with primary, unbranched, saturated C1-C18 alcohols	yes	yes	plastics	stabilizer, antioxidant		0,002		NL
-	-	di-n-octyl-tin-dimaleinate	yes		silicone	hardener				D
-	-	di-n-octyltinmaleate polymer (the polymer must satisfy the formula [(C8H17)2SnC4H2O4]n, where n = 2-4	yes		plastics	stabilizer, antioxidant		0,002	MTC(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration levels of di-n-octyltin-S,S'-bis(2-ethylhexylmercaptoacetate), di-n-octyltin-S,S'-bis(isooctylmercaptoacetate), di-n-octyltin bis(maleic acid monoester, with primary, unbranched, saturated C1-C18 alcohols), di-n-octyltinmaleate and di-n-octyltinmaleate	NL
-	-	N,N'-dioleoyl diamino ethane	yes							Fr
-	-	N,N'-dipalmitoyl diamino ethane	yes		coatings					Fr
-	000971-15-3	dipentamethylenethiuram hexasulphide	yes		rubber	accelerator		0,05	MTC(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration levels of dipentamethylenethiuram hexasulphide and dipentamethylenethiuram tetrasulphide	NL
-	000120-54-7	dipentamethylenethiuram tetrasulphide	yes		rubber	accelerator		0,05	MTC(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration levels of dipentamethylenethiuram hexasulphide and dipentamethylenethiuram tetrasulphide	NL, Fr
51320	000079-74-3	2,5-di-tert-pentylhydroquinone	yes		rubber	antioxidant				Fr
-	000122-39-4	diphenylamine	yes		plastics					NL
-	068411-46-1	diphenylamine, octylated	yes		rubber	antioxidant			Fr : QM = 1 %	Fr
51360	068442-68-2	diphenylamine, styrenated	yes		rubber	antioxidant			Fr : QM = 1 %	Fr
51500	000102-06-7	N,N'-diphenylguanidine	yes		rubber	accelerator	0,0025			NL, Fr
-	000074-31-7	N,N'-diphenyl-p-phenylenediamine	yes		rubber	protecting agent	0,0001			NL
56320	001323-83-7	distearic acid, diester with glycerol	yes		plastics					Fr
-	-	N,N'-distearoyl diamino ethane	yes		coatings					Fr
-	015017-02-4	N,N'-di-o-tolyl-p-phenylenediamine	yes		rubber	protecting agent	0,0001			NL
-	053220-22-7	ditetradecyl peroxydicarbonate	yes				0,0001			NL
-	016545-54-3	ditetradecyl-3,3'-thiodipropionate	yes				0,0025			NL
-	028519-02-0	dodecylphenoxybenzenedisulfonic acid, disodium salt	yes				0,45			NL
-	4706-7008-9	dodecylsulfuric acid	yes		silicone/coatings					Fr
53040	035001-52-6	2-ethoxy-5-tert-butyl-2'-ethyloxalic acid bisanilide	yes		plastics					Fr
-	000075-04-7	ethylamine	yes		plastics					NL
53255	000100-41-4	ethylbenzene	yes		silicone/coatings		0,03			Fr
16920	087057-87-2	2-ethylbutane-1,4-diisocyanate		yes						Fr
16993	000111-76-2	ethyleneglycol monobutyl ether	yes	yes	silicone/coatings		0,15			Fr
16996	000111-80-5	ethyleneglycol monoethyl ether		yes	coatings	monomer	0,15			Fr
16999	000112-25-4	ethyleneglycol monohexyl ether		yes	coatings	solvent				Fr
-	026221-27-2 025067-34-9	ethylene-vinyl alcohol, copolymer	yes							NL
54120	000149-57-5	2-ethylhexanoic acid	yes		plastics	stabilizer, lubricant	0,0025			NL, Fr
-	014634-93-6	ethylphenyldithiocarbamic acid, zinc salt	yes		rubber	accelerator			Fr : QM = 0,4 %	Fr
-	-	ethyltrisacetoxysilane		yes	silicone	crosslinking agent				D
-	028106-30-1	ethylvinylbenzene	yes					0,0001	MTC(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration levels of ethylvinylbenzene and divinylbenzene (FCM No. 405)	NL
-	000078-27-3	ethynylcyclohexanol	yes		coatings	solvent				Fr
-	-	fatty acids, unbranched, saturated and unsaturated, with an even number of carbon atoms, C8-C22, with a maximum content of 2% unsaponifiable matter	yes	yes	plastics, rubber	lubricant, activator				NL
-	-	fatty acids as described above, as compounds with bis(2-hydroxyethyl)amine	yes	yes	plastics	antistatic, lubricant	1,5			NL
-	-	fatty acids as described above, as salts of aluminium, ammonium, calcium, lithium, magnesium, manganese, potassium, sodium and zinc	yes	yes	plastics	stabilizer, antioxidant	0,03 (as Li)			NL
-	-	fatty acids as described above, amides of	yes	yes	plastics, rubber	lubricant, activator				NL
-	-	fatty acids as described above, esterified with alcohols, monohydric, primary, unbranched, saturated, C4-C18, as well as oleyl alcohol	yes	yes	plastics	lubricant				NL
17175	068938-15-8	fatty acids, coco hydrogenated		yes	coatings	monomer				Fr
54730/1	-	fatty acids, tall oil, cobalt salts		yes	coatings		0,0025			Fr
-	061790-37-2	fatty acids, tallow								NL
-	061790-38-3	fatty acids, tallow, hydrogenated								NL
-	007705-08-0	ferric chloride	yes		silicone/coatings	aid of polymerisation				NL, Fr
-	007758-94-3	ferrous chloride	yes		coatings	reductor				NL
-	-	fibers, natural and synthetic, with the exception of asbestos	yes		coatings	filler				NL, Fr
17245	008016-13-5	fish oil		yes	coatings	monomer				Fr

4MS COMBINED LIST OF MONOMERS, OTHER STARTING SUBSTANCES, ADDITIVES, PPAs AND APs FOR ORGANIC PRODUCTS COMING INTO CONTACT WITH DRINKING WATER - 27 June 2012

PM/REF No	CAS No	NAME	Use as additive or PPA	Use as monomer or other starting substance	Material	Technological function	MTC [mg/l]	MTC(T) [mg/l] (Group restriction)	Restrictions and specification	Auth. MS
-	-	formaldehyde-naphthalenesulphonic acid, copolymer, ammonium, calcium and sodium salt	yes		rubber	dispersive agent				Fr
-	009003-36-5	formaldehyde, polymer with 2-(chloromethyl)oxirane and phenol (Novolak glycidyl ether, NOGE)	yes				0,0025			NL
-	024969-11-7	formaldehyde-resorcinol, copolymer	yes		rubber	resin				Fr
54970	009003-08-1	formaldehyde-2,4,6-triamino-1,3,5-triazine, copolymer	yes		coatings					Fr
-	009006-24-0	formaldehyde-xylene, copolymer	yes		rubber	resin				Fr
-	-	glycerol esters with linear fatty acids saturated or not with an even number of carbon C8-C20 and/or adipic acid, citric acid, oxystearin acid and ricinoleic acid	yes		coatings					Fr
18115 /	031566-31-1	glycerol monostearate	yes	yes	coatings, rubber, silicone	processing aid				Fr
18124	008016-24-8	hempseed oil		yes	coatings	monomer				Fr
18400	000592-42-7	1,5-hexadiene		yes	rubber	monomer				D, F, CoEc
-	000592-45-0	1,4-hexadiene		yes	rubber	monomer				NL
-	000143-06-6	hexamethylenediamine carbamate	yes		rubber	accelerator				Fr
-	016096-31-4	1,6-hexanediol diglycidyl ether	yes		coatings		0,0025			NL
71280	008002-74-2 063231-60-7	hydrocarbon waxes, paraffin and microcrystalline	yes		rubber	plasticizer			Fr: SML = 0,3 mg/kg or SML = 3 mg/kg for Hydrogenated wax	NL, Fr, D
-	001333-74-0	hydrogen	yes		rubber	polymer modifier				Fr
-	001191-25-9	6-hydroxyhexanoic acid	yes					0,0025	MTC(T) in this specific case means that the restriction shall not be exceeded by the sum of the migration levels of 6-hydroxyhexanoic acid and caprolacton (FCM No 342)	NL
62210	055406-53-6	iodopropynyl butylcarbamate	yes		rubber	accelerator				Fr
62255	000075-28-5	isobutane	yes							Fr
-	055406-53-6	3-iodo-2-propynylbutylcarbamate	yes		rubber	accelerator				Fr
62220	010045-89-3	iron(II)diammonium bisulphate	yes		coatings					Fr
-	-	isobutyl titanate	yes							Fr
63240	008006-54-0	lanolin (pharmacopeia grade)	yes		coatings					Fr
64000	003999-01-7	linoleamide	yes		silicone/coatings	catalyst				Fr
-	008001-26-1	linseed oil	yes		coatings, rubber	processing aid				Fr
38000	000553-54-8	lithium benzoate	yes		plastics	other add.	0,03		MTC expressed as lithium	NL
-	000554-13-2	lithium carbonate	yes		plastics		0,03		MTC expressed as lithium	NL
64300	001310-65-2	lithium hydroxyde	yes		coatings		0,03			Fr
-	013717-00-5	magnesium carbonate	yes		rubber, coatings	activator, filler, other add.				NL
64560	007786-30-3	magnesium chloride	yes		plastics	catalyst				Fr, NL
-	003097-08-3	magnesium lauryl sulfate	yes		coatings					Fr
-	001343-88-0	magnesium silicate	yes		plastics	other add.				NL
64970	-	maleic anhydride - methyl vinyl ether, copolymer	yes		plastics	emulsion stabilizer				NL
-	068891-01-0	melamine-formaldehyde condensation products	yes		rubber	resin				NL
-	000149-30-4	2-mercaptobenzothiazole	yes		rubber	accelerator		0,15	MTC(T) in this specific case means that the restriction shall not be exceeded by the sum of the migrations levels of 2,2'-dibenzothiazyl disulfide, mercaptobenzothiazole, 2-(4-morpholino)thiobenzothiazole and zinc mercaptobenzothiazole	NL, Fr, D (SCF opinion)
-	002492-26-4	2-mercaptobenzothiazole, sodium salt	yes		rubber	accelerator				Fr
-	000155-04-4	2-mercaptobenzothiazole, zinc salt	yes		rubber	accelerator				Fr, D
(19977)	000060-24-2	2-mercaptoethanol	yes		plastics, rubber	other add.	0,0025			NL
-	059118-78-4	2-mercaptoethyl oleate	yes		plastics	stabilizer, antioxidant	1,5			NL
-	068440-24-4	mercaptoethyl tallate	yes				1,5			NL
-	000096-45-7	2-mercaptoimidazoline	yes		rubber	accelerator	0,0025			NL
-	000096-53-7	2-mercaptothiazoline	yes		rubber	accelerator	0,0001			NL, Fr
-	-	methacrylic acid, chromium (III) salt			plastics	aids to polymerization				D
-	-	methacrylic acid, esters with alcohols, monohydric, aliphatic saturated, C1-C18		yes	rubber	monomer	0,3			NL
66000	-	3'-methoxy-4'-hydroxyphenyl-2-indole	yes		plastics	stabilizer				Fr
-	000109-87-5	methylal (dimethoxymethane)	yes		plastics					NL
-	-	methyl-2-butyn-3-ol-2	yes		silicone/coatings	inhibitor				D, Fr
21754	015520-10-2	2-methyl-1,5-diaminopentane		yes	coatings	hardener	0,005			D
-	004088-22-6	N-methyldioctadecylamine	yes							NL
-	007786-17-6	2,2'-methylenebis(6-nonyl-p-cresol)	yes		rubber	antioxidant				Fr
-	000694-91-7	5-methylenebicyclo[2.2.1]hept-2-ene	yes	yes	rubber, coatings	monomer	0,0025			NL
-	007786-17-6	2,2-methylenebis(4-methyl-6-nonylphenol)	yes		plastics		0,0001			NL
21827	000078-93-3	methyl ethyl ketone	yes	yes	coatings/silicone		0,25			NL, Fr
-	000096-29-7	methyl ethyl ketone oxime	yes		coatings					D
66715	000693-98-1	2-methylimidazole	yes		coatings		0,0025			D
-	000534-26-9	2-methylimidazoline	yes				0,0001			NL
66725	000108-10-1	methyl isobutyl ketone	yes		silicone					D
22190	002163-42-0	2-methyl-1,3-propanediol		yes	coatings	monomer	0,25			Fr
-	201687-58-3	methyltin-2-mercaptoethyl tallate	yes		plastics		0,009			NL
-	-	methyltrisacetoxysilane		yes	silicone	crosslinking agent				D
-	-	methyltrisbutanoximosilane		yes	silicone	crosslinking agent				D
-	-	methyltriscyclohexylaminosilane		yes	silicone	crosslinking agent				D
-	-	methyltris-sec.-butylaminosilane		yes	silicone	crosslinking agent				D
-	-	mono- and/or polytitanic acid, butyl ester (butyltitanate, butylpolytitanate), as necessary, with the monoethylether of ethanediol (ethylene glycol) in the ratio 1:1			silicone	aids to polymerization				D
22333	000079-11-8	monochloroacetic acid		yes	coatings		0,0025			Fr
67280	000108-90-7	monochlorobenzene	yes		plastics, coatings		0,001			NL
-	-	monoethanolamine laurylsulfate	yes		coatings					Fr
-	-	mono-n-octyltin tris(maleic acid half ester), prepared with C1-C18, primary,		yes	plastics	stabilizer, antioxidant	0,001		MTC expressed as tin	NL
-	-	mono-n-octyltin tris(monoalkyl(C1-C18) maleate)	yes		plastics	stabilizer, antioxidant	0,001		MTC expressed as tin	NL
-	-	montanic esters with ethylene glycol and/or 1,3-butanediol and/or glycerol	yes							NL
-	000102-77-2	morpholiniothio-2-benzothiazole	yes		rubber	accelerator		0,15	MTC(T) in this specific case means that the restriction shall not be exceeded by the sum of the migrations levels of 2,2'-dibenzothiazyl disulfide, mercaptobenzothiazole, 2-(4-morpholino)thiobenzothiazole and zinc mercaptobenzothiazole	NL
-	-	myristyl polyethylene glycol (3-8) ether with oxyacetic acid		yes	plastics	antistatic				NL
67900	008030-30-6	naphtha	yes		plastics					Fr
-	-	naphtalene sulfonic acid-formaldehyde condensation product, sodium salt						0,0001		NL
-	027253-31-2	neodecanoic acid, cobalt salt	yes				0,0025		MTC expressed as cobalt	NL
46960	030947-30-9	nickel bis[monoethyl(3,5-di-tert-butyl-4-hydroxybenzyl)phosphonate]	yes		plastics	stabilizer				Fr
68140	007697-37-2	nitric acid	yes		coatings/rubber	buffering agent				Fr
-	000506-48-9	octacosanoic acid (montanic acid)	yes							NL
68650	006700-85-2	n-octanoic acid, cobalt salt	yes		coatings		0,0025			Fr

4MS COMBINED LIST OF MONOMERS, OTHER STARTING SUBSTANCES, ADDITIVES, PPAs AND APs FOR ORGANIC PRODUCTS COMING INTO CONTACT WITH DRINKING WATER - 27 June 2012

PM/REF No	CAS No	NAME	Use as additive or PPA	Use as monomer or other starting substance	Material	Technological function	MTC [mg/l]	MTC(T) [mg/l] (Group restriction)	Restrictions and specification	Auth. MS
68680	016577-52-9	n-octanoic acid, lithium salt	yes		coatings		0,03			Fr
68690	006535-19-9	n-octanoic acid, manganese salt	yes		coatings		0,03			Fr
-	000557-09-5	octanoic acid, zinc salt	yes		coatings					NL
-	026530-20-1	2-octyl-2H-isothiazole-3-one	yes		rubber	preservative				Fr
69120	000142-77-8	oleic acid, butyl ester	yes		plastics					NL
-	059118-78-4	oleic acid, 2-mercaptoethyl ester	yes		plastics		1,5			NL
-	001912-84-1	oleic acid, tin(II) salt	yes		plastics		0,0025			NL
69848	-	organopolysiloxanes, containing methylgroups on each silicon atom which can be partially replaced by alkenyl(C2-C32)groups, alkyl (C2-C32)groups, hydroxylgroups, hydrogen, disubstituted alkylamines and/or hydroxylated alkylgroups, acetoxy and/or alkoxy groups and their condensation products with polyethyleneglycol and/or polypropyleneglycol, fluorinated alkylgroups, and phenylgroups	yes	yes	silicone/coatings					Fr
-	-	organopolysiloxanes, linear and branched, with methyl groups alone and/or n-alkyl(C2-C32), and/or phenyl-2, and/or vinyl-, and/or hydroxyl-, and/or alkoxy(C1-C4), and/or hydrogen-, and/or carboalkoxyalkyl(-(CH2)2-17-C(O)-O-(CH2)0-17CH3)-, and/or hydroxyalkyl(C1-C3)-groups	yes	yes	silicon resin	monomer, polymeric additiv				D
-	-	organopolysiloxanes, linear or branched, as mentioned PM/REF No. 69848, but in addition with up to max. 5 % hydrogen and/or alkoxy(C2-C4) and/or carboalkoxyalkyl(-(CH2)2-17-C(O)-O-(CH2)0-17CH3)- and/or hydroxyalkyl(C1-C3) groups attached to the silicon atom	yes	yes	silicon oil, silicon rubber	monomer or polymeric additiv				D
-	-	organopolysiloxanes, linear or branched and/or cyclic, with methyl groups alone or with n-alkyl(C2-C32), phenyl-2 and/or hydroxyl groups attached to the silicon atom, and their condensation products with polyethylene and/or polypropyleneglycol	yes	yes	silicon oil, silicon rubber	monomer or polymeric additiv				D
-	-	organopolysiloxanes with vinyl groups attached to the silicon atom	yes	yes	silicon rubber	monomer or polymeric additiv				D
-	-	2-heptadecyl-4,4-bis (methylenestearate) oxazoline	yes		coatings					Fr
70080	000080-51-3	4,4'-oxybis(benzene sulphonyl hydrazide)	yes		plastics	blowing agent				Fr
-	007782-44-7	oxygen	yes	yes	plastics	catalyst				NL
70320	000629-54-9	palmitamide	yes		silicone/coatings	catalyst				Fr
70720	000540-10-3	palmitic acid, hexadecyl ester	yes		plastics					Fr
71120	008012-95-1	paraffin oil	yes		plastics					Fr
-	-	paraffin, microcrystalline		yes	plastics, rubber	lubricant, plasticizer				NL
-	-	paraffin, solid, including synthetic paraffin		yes	plastics, rubber	lubricant, plasticizer				NL
-	013845-36-8	pentapotassium triphosphate	yes							NL
71710	000098-77-1	pentamethylenammonium-N-pentamethylenedithiocarbamate	yes		rubber	accelerator				Fr
-	000098-77-1	pentamethylenedithiocarbamic acid, piperidine salt	yes		rubber	accelerator				Fr
-	013878-54-1	pentamethylenedithiocarbamic acid, zinc salt	yes		rubber	accelerator				Fr
-	000079-21-0	peracetic acid	yes							Fr
-	000107-71-1	peracetic acid, tert-butyl ester	yes				0,0001			NL
-	000614-45-9	perbenzoic acid, tert-butyl ester	yes				0,0001			NL
-	015520-11-3	percarbonic acid, bis(4-tert-butylcyclohexyl) ester	yes				0,0001			NL
-	016111-62-9	percarbonic acid, bis(2-ethylhexyl) ester	yes				0,0001			NL
-	001561-49-5	percarbonic acid, dicyclohexyl ester	yes				0,0001			NL
-	026322-14-5	percarbonic acid, dihexadecyl ester	yes				0,0001			NL
-	000105-64-6	percarbonic acid, diisopropyl ester	yes				0,0001			NL
-	053220-22-7	percarbonic acid, ditetradecyl ester	yes				0,0001			NL
-	000927-07-1	per(2,2-dimethylpropionic acid), tert-butyl ester	yes				0,0001			NL
-	003006-82-4	per(2-ethylhexanoic acid), tert-butyl ester	yes				0,0001			NL
-	007775-27-1	peroxydisulfuric acid, disodium salt	yes				0,0001			NL
-	026748-41-4	permeodecanoic acid, tert-butyl ester	yes				0,0001			NL
72048	007727-21-1	persulphuric acid, potassium salt	yes				0,0001			NL
-	013122-18-4	per(3,5,5-trimethylhexanoic acid), tert-butyl ester	yes				0,0001			NL
72060	008009-03-8	petrolatum	yes		plastics/rubber/coatings	lubricant/plasticizer				NL
-	-	petroleum hydrocarbon resins (cyclopentadiene type), hydrogenated	yes		rubber	resin			SML = 3 mg/kg	Fr
-	064741-56-6	petroleum residues, vacuum distilled	yes		rubber	resin				Fr
-	092062-05-0	petroleum residues, thermal cracked vacuum	yes		rubber	resin				Fr
72105	-	phenols and/or cresols-styrene and/or alpha-methylstyrene and/or C3-C12 olefins, copolymers	yes				0,0001			NL
-	068610-06-0	phenols, butylated, isobutylated or octylated	yes		rubber	antioxidant				Fr
-	061788-44-1	phenols, styrenated	yes		rubber	antioxidant				Fr
23125	000103-71-9	phenyl isocyanate		yes	coatings	monomer				Fr
-	-	N-phenyl-N'-isohexyl-p-phenylenediamine	yes	yes	rubber	protecting agent	0,0001			NL
72400	000132-27-4	2-phenylphenol, sodium salt	yes		rubber	preservative			QM = 0,02 %	Fr
72560	007144-65-2	3-(2-phenyl)phenoxy-1,2-epoxypropane	yes		plastics					Fr
-	007774-80-3	phenyl-o-tolyl-phenylenediamine	yes		rubber	protecting agent	0,0001			NL
73520	039471-52-8	phosphoric acid, octadecyl ester	yes		plastics					Fr
73680	000126-73-8	phosphoric acid, tributyl ester	yes		rubber	antifoaming				Fr
74000	000078-42-2	phosphoric acid, tris(2-ethylhexyl) ester	yes		plastics	filler				Fr
23173	001314-56-3	phosphoric anhydride		yes	coatings	monomer				Fr
-	010294-56-1	phosphorous acid	yes		rubber	antioxidant				NL
-	054771-30-1	phosphorous acid, dinonylphenyl bis(nonylphenyl) ester	yes		plastics	plasticizer			SML = 6 mg/kg	Fr
74800	-	phthalic acid, di-heptylnonyl ester	yes		rubber	plasticizer				Fr
74960	000084-61-7	phthalic acid, dicyclohexyl ester	yes		plastics	plasticizer			SML = 6 mg/kg	Fr
75040	-	phthalic acid, diesters of hexadecanol and/or octadecanol	yes							Fr
75200	003648-61-1	phthalic acid, diheptylic ester	yes		plastics	plasticizer				Fr
75840	000117-84-0	phthalic acid, di-n-octyl ester	yes				0,1			NL
-	000110-85-0	piperazine	yes				0,075			NL
-	-	platinum complexes	yes		silicone	catalyst				D, Fr
76461	009003-01-4	polyacrylic acid	yes		rubber					Fr
76520	009003-29-6	polybutene	yes		rubber	antifoaming				Fr
-	-	polyalcoxyesters of acids, fatty with an even number of carbon (C8-C24)	yes		plastics					Fr
-	068410-23-1	polyaminoamide	yes		rubber/coatings	macromolecular agent	0,0001			NL
76680	068132-00-3	polycyclopentadiene	yes		plastics	resin				Fr
76690	-	polydienic resin, synthetic		yes						Fr
-	-	polydimethyl siloxanes and polydimethyl silicones, 3-aminopropyl-group terminated, polymers with 1-isocyanato-3-isocyanatomethyl-3,5,5-trimethylcyclohexane	yes	yes	silicon rubber	monomer or polymeric additiv			Specific restrictions for 1-isocyanato-3-isocyanatomethyl-3,5,5-trimethylcyclohexane and 1-amino-3-aminomethyl-3,5,5-trimethylcyclohexane according 10/2011	D

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PM/REF No	CAS No	NAME	Use as additive or PPA	Use as monomer or other starting substance	Material	Technological function	MTC [mg/l]	MTC(T) [mg/l] (Group restriction)	Restrictions and specification	Auth. MS
-	-	polydimethyl siloxanes and polydimethyl silicones, 3-aminopropyl-group terminated, polymers with bis(4-isocyanatocyclohexyl)methane	yes	yes	silicon rubber	monomer or polymeric additiv			Specific restrictions for bis(4-isocyanatocyclohexyl)methane and bis(4-aminocyclohexyl)methane according to 10/2011	D
79550	009014-85-1	polyethyleneglycol-2,4,7,9-tetramethyl-5-decyN-4,7-diol ether	yes		coatings					Fr
-	-	polyesters with an average molecular weight > 1000, obtained by a reaction with adipic acid, azelaic acid, succinic acid, decanedicarboxylic acid, phthalic acid or sebacic acid with 1,3-butanediol, 2,2-dimethyl-1,3-propanediol, ethanediol, glycerol, 1,6-hexanediol or 1,2-propanediol, with the reaction being (or not being) terminated using fatty acids or alcohols, as described in this list	yes		rubber	plasticizer				NL
-	-	polyester of adipic acid with a mixture of 1,3- and 1,4-butanediol, with free hydroxyl groups acetylated	yes	yes						Fr
-	-	polyester of 1-(2-hydroxyethyl)-4-hydroxy-2,2,6,6-tetramethylpiperidine and the dimethyl ester of ethane-1,2-dicarboxylic acid, with a molecular weight greater than 1500 and smaller than 5000	yes		coatings	anchorage agent				NL
-	-	polyethyleneamine and polyethyleneimine	yes		coatings					Fr
-	-	polyethylene aminostearamide ethylsulfate	yes							Fr
76900	-	polyesters produced by reacting adipic acid, azelaic acid, succinic	yes		plastics	resin				NL
-	028208-80-2	poly(ethylene-co-acrylic acid), zinc salt		yes						Fr
-	-	poly(ethylene and/or propylene)glycol, copolymers with polyisocyanates and/or polyurethanes		yes						Fr
-	-	polyethylene, oxidised, molecular weight ≥ 5000, oxygen content ≥ 1.2%, epoxy groups: not detectable	yes		plastics	lubricant			QM = 0,5%	NL
-	009005-00-9	polyethylene glycol stearyl ether								NL
-	-	polyethylene glycol, esters with alifatic mono carbonic acids (C6-C22) and their								
-	-	polyethylene oxide (8-14), esterified with lauric acid, oleic acid, ricinoleic acid and/or stearic acid		yes						NL
-	-	polyethylene oxide, molecular weight > 200 (pEO)	yes		plastics	lubricants, other add.				NL
-	-	polyethylene oxide desorbitan monolaurate	yes		coatings	emulgator				NL
-	-	polyethylene oxide(4-14)ether of octyl- and/or nonylphenol	yes		plastics, rubber	emulgator	0,25			NL
-	-	polyethylene oxide(4-14)ethers of monohydric, primary, unbranched, saturated C12-C18 alcohols	yes		plastics	plasticizer	0,25			NL
80160	037349-34-1	polyglyceryl-5 stearate	yes		silicone/coatings					Fr
80360	009003-27-4	polyisobutene	yes		rubber	polymeric additive				Fr, D
-	025101-03-5	poly(propylene adipate)								NL
-	-	polypropylene oxide	yes		rubber	thickener				NL
-	-	polypropylene oxide, esterified with lauric acid, oleic acid, ricinoleic acid and/or								
-	-	polysaccharides	yes		rubber	thickener				Fr
-	-	poly(styrene-co-maleic anhydride)	yes		plastics					Fr
-	009003-53-6	polystyrene (with pentane as expansion agent)	yes		rubber	resin				Fr
81120	-	polyterpenes	yes		lubricant					Fr
81160	009002-84-2	polytetrafluoroethylene	yes		lubricant		0,0025		MTC for the residual TFE	D
3680/8128	009002-89-5	polyvinyl alcohol	yes	yes	plastics, rubber	emulsion polymerization aid, thickener				NL
-	-	polyvinyl alcohols, partially acetylated with < 20% acetyl groups and a K-value of > 40	yes	yes	silicon, coatings	emulgator				D, Fr
23710	063148-65-2	polyvinyl butyral	yes		plastics					Fr
81325	025498-06-0	polyvinyl cyclohexane	yes		rubber	coagulating agent				Fr
-	-	poly(vinyl methyl ether)	yes							Fr
81475	-	poly-N-vinyl-N-methylformamide, molecular weight > 40.000	yes		plastic/silicone	solvent				NL
81500	009003-39-8	polyvinylpyrrolidone	yes		rubber	thickener				NL, Fr
23730	008002-11-7	poppyseed oil		yes	coatings	monomer				Fr
-	011137-59-0	potassium aluminate	yes		rubber	buffering agent				Fr
-	000584-08-7	potassium carbonate	yes		rubber	buffering agent				NL, Fr
-	004706-78-9	potassium laurylsulfate	yes		coatings					Fr
-	012136-45-7	potassium oxide	yes		plastics	other add.				NL, Fr
-	007727-21-1	potassium persulfate	yes				0,0001			NL
-	001312-76-1	potassium silicate	yes		plastics	other add.				
-	000074-98-6	propane	yes		plastics	pol.contr. agent				NL
-	019019-51-3	propionic acid, cobalt salt	yes				0,0025		MTC expressed as cobalt	NL
-	000108-32-7	propylene carbonate	yes		lubricant					D
24045	008016-49-7	pumpkinseed oil		yes	coatings	monomer				Fr
83530	071011-24-0	quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides, compounds with bentonite	yes		lubricant	thickener				D
83560	068953-58-2	quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, salts with bentonite	yes		lubricant	thickener				D
-	-	reaction products of styrene and/or methylstyrene and/or alkenes (C3-C12) with phenol and/or methylphenol	yes		coatings	anchorage agent	0,0025			NL
83650	009008-34-8	resin acids and rosin acids, manganese salts	yes		coatings		0,03			Fr
-	-	reticulated cationic Polyalkyleneamine	yes		plastics					Fr
83760	-	ricinoleic acid, amyl ester	yes		plastics					Fr
83760	-	ricinoleic acid, butyl ester	yes		plastics					Fr
83760	-	ricinoleic acid, ethyl ester	yes		plastics					Fr
-	-	rosin, dimerised, esters	yes		plastics					Fr
-	-	rosin, hydrogenated, esters	yes		rubber/plastics	plasticizer				Fr
24260	008001-23-8	safflower oil		yes	coatings	monomer	0,075			Fr
85120	000122-62-3	sebacic acid, bis(2-ethylhexyl) ester	yes		plastics	PA				Fr
85280	052829-07-9	sebacic acid, bis(2,2,6,6-tetramethyl-4-piperidyl) ester	yes		lubricant		0,3			NL, Fr
-	-	sebacic acid, reaction product with stearylamine, neutralised with calciumhydroxide	yes	yes						D
24435	008008-74-0	sesame oil		yes	coatings	monomer				Fr
24440	009000-59-3	shellac		yes	coatings	monomer				Fr
24445	-	silanols, with at least one hydroxyl group and one or more methyl, vinyl or phenyl groups on every silicon atom		yes	rubber	monomers	0,0001			NL
-	019193-36-9	silicic acid	yes		silicone/coatings	filler				Fr
86080	010101-52-7	silicic acid, zirconium salt	yes			lubricant				Fr
-	068988-56-7	silicon dioxide, reactionproduct with trimethylchlorosilane and isopropanol	yes			lubricant				D
-	010026-04-7	silicon tetrachloride	yes		plastics	catalyst				NL
-	009006-65-9	silicone oils (organopolysiloxanes with methyl and/or phenyl groups)	yes	yes	coatings, rubber, lubricant	polymeric additive, basic oils				D, Fr
86440	-	sodium aluminate	yes		coatings					Fr
-	000497-19-8	sodium carbonate	yes		plastics/rubber	buffering agent				NL
86640	009004-32-4	sodium carboxymethylcellulose	yes							Fr

4MS COMBINED LIST OF MONOMERS, OTHER STARTING SUBSTANCES, ADDITIVES, PPAs AND APs FOR ORGANIC PRODUCTS COMING INTO CONTACT WITH DRINKING WATER - 27 June 2012

PM/REF No	CAS No	NAME	Use as additive or PPA	Use as monomer or other starting substance	Material	Technological function	MTC [mg/l]	MTC(T) [mg/l] (Group restriction)	Restrictions and specification	Auth. MS
-	007647-14-5	sodium chloride	yes							NL
-	-	sodium dodecyl sulphate	yes		silicon	emulgator			QM = 0,5%	D
-	007681-49-4	sodium fluoride	yes		plastics	antioxidant				NL
-	007681-53-0	sodium hydrophosphite	yes							Fr
-	001313-59-3	sodium oxide	yes							NL
-	-	sodium dioctylsulfosuccinate	yes							Fr
-	001561-92-8	sodium methallyl sulfonate	yes				0,25			NL
-	007601-89-0	sodium perchlorate	yes		coatings		0,0025			NL
-	-	sodium propionate	yes		silicone/coatings	filler				Fr
-	001344-09-8	sodium silicate								NL
-	001344-00-9	sodium silico aluminate	yes						Purity criteria same as for calcium oxide	Fr
-	001303-96-4	sodium tetraborate decahydrate	yes				0,05		MTC expressed as boron	NL
-	013573-18-7	sodium tripolyphosphate	yes		coatings	solvent				NL
-	-	solvents (boiling point < 150°C) if eliminated in final product	yes		coatings	solvent				Fr
-	-	sorbitol esters with linear fatty acids saturated or not with an even number of carbon	yes	yes			0,0001			Fr
-	-	soybean oil, modified with sulphur or not (faktis)	yes		plastics	lubricant				NL
89520	008045-34-9	stearic acid, esters with pentaerythritol	yes		plastics					Fr
89600	000111-61-5	stearic acid, ethyl ester	yes		plastics					Fr
90000	000646-13-9	stearic acid, isobutyl ester	yes		plastics					Fr
90480	006382-13-4	stearic acid, pentyl ester	yes		coatings					Fr
-	-	stearic acid mono or di esters with ethanediol and/or ether bis(2-hydroxyethyl) and/or triethyleneglycol	yes		plastics	stabilizer				Fr
-	025383-99-7	sodium stearoyl-2-lactylate	yes		silicone/coatings	dispersive agent				Fr
-	-	stearoyl-palmitoyl-benzoyl-methane		yes						Fr
-	-	styrene (2 mol) condensed with 1 mol of a mixture of phenol and o-, m- en p-cresols, Brookfield viscosity of the end product at 25°C between 1400 and 1700 cP	yes		plastics	PA	0,0001			NL
-	068442-68-2	styrene, reaction product with diphenylamine					0,0025			NL
-	000126-33-0	sulfolane					0,0001			NL
91760	002673-22-5	sulphosuccinic acid, dodecyl ester, sodium salt	yes							Fr
-	007446-09-5	sulphur dioxide	yes							Fr
24905	008002-26-4	tall oil		yes	coatings	monomer				Fr
92100	061789-97-7	tallow	yes		coatings					Fr
-	061790-37-2	tallow acid	yes							Fr
-	061790-38-3	tallow acid, hydrogenated	yes		rubber	accelerator				Fr
-	010591-85-2	tetrabenzylthiuram disulphide	yes		rubber	accelerator				Fr
-	001634-02-2	tetrabutylthiuram disulphide	yes		rubber	accelerator		0,05	MTC(T) in this specific case means that the restriction shall not be exceeded by the sum of the migrations levels of tetrabutylthiuram disulphide, tetraethylthiuram disulphide, tetramethylthiuram disulphide and tetramethylthiuram monosulphide	NL
-	005593-70-4	tetra-n-butyl titanate	yes		rubber	accelerator				Fr
92400	000097-77-8	tetraethylthiuram disulphide	yes		plastics/rubber	expanding agent/accelerator		0,05	MTC(T) in this specific case means that the restriction shall not be exceeded by the sum of the migrations levels of tetrabutylthiuram disulphide, tetraethylthiuram disulphide, tetramethylthiuram disulphide and tetramethylthiuram monosulphide	NL, Fr
-	000811-97-2	1,1,1,2-tetrafluoroethane	yes							Fr
92480	-	tetrakis(2,4-di-tert-butylphenyl)-2,4'-biphenylene diphosphonite	yes		rubber	antifoaming	0,9			NL
92685	000126-86-3	2,4,7,9-tetramethyl-5-decyne-4,7-diol	yes		rubber	accelerator			QM = 0,1 %	Fr
92720	000137-26-8	tetramethylthiuram disulphide	yes		rubber	accelerator		0,05	MTC(T) in this specific case means that the restriction shall not be exceeded by the sum of the migrations levels of tetrabutylthiuram disulphide, tetraethylthiuram disulphide, tetramethylthiuram disulphide and tetramethylthiuram monosulphide	NL, Fr
-	000097-74-5	tetramethylthiuram monosulphide	yes		rubber	accelerator		0,05	MTC(T) in this specific case means that the restriction shall not be exceeded by the sum of the migrations levels of tetrabutylthiuram disulphide, tetraethylthiuram disulphide, tetramethylthiuram disulphide and tetramethylthiuram monosulphide	NL, Fr
92960	000111-17-1	thiodipropionic acid	yes		plastics/coatings	antioxidant				NL, Fr
93420	007646-78-8	tin(IV)chloride	yes		coatings					Fr
-	001912-84-1	tin dioleate (9-octadecenoic acid(9Z)-, tin(2+) salt)	yes				0,0025			NL
-	-	titanic acid, esters with isobutanol, n-butanol and the enolate of ethyl-acetoacetate	yes		silicon	catalyst				D
-	011130-18-0	titanium chloride	yes		plastics	catalyst				NL
93490	051745-87-0	titanium oxide	yes		plastics	other add.				NL, Fr
-	007550-45-0	titanium tetrachloride	yes		plastics	other add.				NL
-	000108-88-3	toluene	yes		rubber/silicone	dispersive agent	0,06			NL
25208	026471-62-5	toluene diisocyanate		yes	coatings	monomer	0,06			Fr
-	000104-15-4	p-toluenesulphonic acid	yes		rubber	accelerator	0,0005			Fr
-	000093-69-6	o-tolylbiguanidine	yes		rubber	accelerator	0,0001			NL, Fr
-	-	trialkyl(C5-C15)acetic acid, 2,3-epoxypropyl ester	yes		plastics				QM = 1 mg/kg	NL
25390	000101-37-1	triallyl cyanurate	yes		rubber	activator	0,0001			NL
25405	001025-15-6	triallyl isocyanurate	yes		rubber	activator	0,0001			NL
93790	000102-82-9	tributylamine	yes				0,0001			NL
-	000813-94-5	tricalcium dicitrate	yes							NL
-	000090-72-2	2,4,6-tri(dimethylaminomethyl)phenol	yes		rubber	activator	0,0001			NL
94000	000102-71-6	triethanolamine	yes							Fr
94270	000121-44-8	triethylamine	yes		rubber	plasticizer	0,0001			NL
-	000106-10-5	triethyleneglycol dioctanoate	yes							Fr
-	000078-40-0	triethyl phosphate	yes				0,375			NL
-	003236-53-1	2,2,4-trimethyl-1,6-hexanediamine	yes				0,25			NL
25573	016938-22-0	2,2,4-trimethylhexane-1,6 diisocyanate		yes	coatings	monomer				NL
25573	015646-96-5	2,4,4-trimethylhexane-1,6 diisocyanate		yes	coatings	monomer	0,0005			Fr
-	010380-08-2	triphosphoric acid	yes				0,0005			NL, Fr
-	-	tris(nonylphenyl and/or dinonylphenyl)fospite					1,5			NL
-	-	trivinyl cyclohexane and α,ω-dihydrogenpolyhydrogenmethylidimethyl-siloxanes, addition products of	yes	yes	silicon rubber	monomer or polymeric additiv		max. 10 %		D
-	-	urea-formaldehyde condensation products	yes		plastics/coatings	macromolecular agent,				NL
-	007718-98-1	vanadium chloride	yes		plastics	catalyst	0,0025		MTC expressed as vanadium	NL
-	011099-11-9	vanadium oxide	yes		plastics	catalyst	0,0025		MTC expressed as vanadium	NL
-	008009-03-8	vasaline, pharmaceutical quality		yes	rubber	plasticizer				NL
-	-	vinyl esters of monohydric, saturated, aliphatic carboxylic acids, C2-C20		yes	plastics	monomer	0,0025			NL
-	003048-64-4	vinylnorbornene					0,0025			NL

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PM/REF No	CAS No	NAME	Use as additive or PPA	Use as monomer or other starting substance	Material	Technological function	MTC [mg/l]	MTC(T) [mg/l] (Group restriction)	Restrictions and specification	Auth. MS
-	00088-12-0	vinylpyrrolidone	yes		plastic	lubricant				NL
26215	000100-69-6	2-vinylpyridine		yes	rubber	monomer				Fr
26340	008024-09-7	walnut oil		yes	coatings	monomer				Fr
-	-	waxes, mineral, refined	yes		plastics	lubricant				Fr
-	-	waxes derived from copolymers of ethylen and : vinyl acetate, acylic acid, maleic	yes		rubber	accelerator				Fr
95870	-	wheat protein	yes		coatings					NL, Fr
26370	001330-20-7	xylene	yes		coatings/silicone	dispersive agent				Fr
-	007646-85-7	zinc chloride								NL
-	014726-36-4	zinc dibenzylthiocarbamate	yes		rubber	accelerator		0,05	MTC(T) in this specific case means that the restriction shall not be exceeded by the sum of the migrations levels of zinc dibenzylthiocarbamate, zinc dibutylthiocarbamate, zinc diethylthiocarbamate, zinc dimethylthiocarbamate and zinc ethylphenylthiocarbamate	NL, Fr
-	000136-23-2	zinc dibutylthiocarbamate	yes		rubber	accelerator		0,05	MTC(T) in this specific case means that the restriction shall not be exceeded by the sum of the migrations levels of zinc dibenzylthiocarbamate, zinc dibutylthiocarbamate, zinc diethylthiocarbamate, zinc dimethylthiocarbamate and zinc ethylphenylthiocarbamate	NL, Fr
96170	014324-55-1	zinc diethylthiocarbamate	yes		rubber	accelerator		0,05	MTC(T) in this specific case means that the restriction shall not be exceeded by the sum of the migrations levels of zinc dibenzylthiocarbamate, zinc dibutylthiocarbamate, zinc diethylthiocarbamate, zinc dimethylthiocarbamate and zinc ethylphenylthiocarbamate	NL, Fr
-	000137-30-4	zinc dimethylthiocarbamate	yes		rubber	accelerator		0,05	MTC(T) in this specific case means that the restriction shall not be exceeded by the sum of the migrations levels of zinc dibenzylthiocarbamate, zinc dibutylthiocarbamate, zinc diethylthiocarbamate, zinc dimethylthiocarbamate and zinc ethylphenylthiocarbamate	NL
-	014634-93-6	zinc ethylphenylthiocarbamate	yes		rubber	accelerator		0,05	MTC(T) in this specific case means that the restriction shall not be exceeded by the sum of the migrations levels of zinc dibenzylthiocarbamate, zinc dibutylthiocarbamate, zinc diethylthiocarbamate, zinc dimethylthiocarbamate and zinc ethylphenylthiocarbamate	NL
-	000136-53-8	zinc-di-2-ethylhexanoate	yes		silicone	hardener			QM = 1,5 %	D, NL
96180	-	zinc dust	yes		coatings			0,15	MTC(T) in this specific case means that the restriction shall not be exceeded by the sum of the migrations levels of 2,2'-dibenzothiazyl disulfide, mercaptobenzothiazole, 2-(4-morpholino)thiobenzothiazole and zinc mercaptobenzothiazole	NL
96200	055799-16-1	zinc hydroxyphosphite	yes		coatings					Fr
-	000155-04-4	zinc-2-mercaptobenzothiazole	yes		rubber	lubricant				Fr
-	004991-47-3	zinc palmitate	yes		plastics	stabilizer, antioxidant			F: SML = 10 mg/kg	Fr, NL
-	000557-05-1	zinc stearate	yes		plastics	stabilizer, antioxidant				NL
-	053801-45-9	zirconium oxide	yes		plastics, rubber	stabilizer, antioxidant, drying	0,0025		MTC expressed as zirconium	NL

The substance mentioned below also appear in Regulation (EU) N° 10/2011 but in the French text the following supplementary restrictions are included.

41520	001305-78-8	calcium oxide			rubber	activator			After solution in 0,1 M hydrochloric acid, the concentration of the following minerals shall not exceed the values stipulated for these minerals: Pb: 0,01% As: 0,01% Hg: 0,005% Cd: 0,01% Se: 0,01% Ba: 0,01% Cr: 0,1%	
41280	001305-62-0	calcium hydroxide			rubber	activator				
64720	001309-48-4	magnesium oxide			rubber	activator				
96240	001314-13-2	zinc oxide			rubber	filler				
	003486-35-9	zinc carbonate			rubber	filler				
34560	021645-51-2	aluminium hydroxide			rubber	filler				
	000471-34-1	calcium carbonate			rubber	filler				
52640	016389-88-1	dolomite			rubber	filler				
		silicon dioxide and silicon dioxide, silanated			rubber	filler				
	001343-88-0	magnesium silicate			rubber	filler				
	010034-77-2	calcium silicate			rubber	filler				
	001335-30-4	aluminium silicate			rubber	filler				
92000	007727-43-7	barium sulfate			rubber	filler				
93440	013463-67-7	titanium dioxide			rubber	filler				