

16 January 2019
Responsibility/ALi

**NON-USE WARRANTY FOR CHEMICAL SUBSTANCES -
UPM Paper and Pulp mills**

We hereby warrant that UPM do not add these substances listed below to the manufacturing processes of any of our pulp or paper mills (Augsburg, Blandin, Caledonian, Changshu, Chapelle, Ettringen, Fray Bentos, Hürth, Jämsänkoski, Kaipola, Kaukas, Kymi, Nordland, Plattling, Rauma, Pietarsaari, Schongau, Shotton, Steyrmühl and Tervasaari). Thereby all products we supply are free of these substances listed below or, where these substances exist as traces in our raw materials or are generated during the manufacturing process, their content is negligible.

1. Brominated flame retardants:

Substance	CAS number
Pentabromodiphenyl ether	32534-81-9
Octabromodiphenyl ether	32536-52-0

Listed in directive 2003/11/EC restricting use of Pentabromodiphenyl ether & Octabromodiphenyl ether (Brominated Flame Retardants).

2. Ozone depleting substances:

Listed in the Montreal protocol.

Substance	CAS number	Substance	CAS number
CFCs		Halons	
Carbon tetrachloride	56-23-5	1,1,1-trichloroethane	71-55-6
HBFCs		HCFCs	
Bromochloromethane	74-97-5	Methyl bromide	74-83-9

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3. UNEP 12 Chemicals, persistent organic pollutants:

Substance	CAS number	Substance	CAS number
Aldrin	309-00-2	Chlordane	57-74-9
DDT	50-29-3	Dieldrin	60-57-1
Dioxins		Endrin	72-20-8
Furans		Heptachlor	76-44-8
Hexachlorobenzene (HCB)	118-74-1	Mirex	2385-85-5
Polychlorinated biphenyls (PCBs)		Toxaphene (also called Camphechlor)	8001-35-2

Listed in United Nations Environment Programme.

4. Substances in Oskar Priority List 1998 (the Convention for the Protection of the Marine Environment of the North East Atlantic - the OSPAR Convention).

Chemicals also identified by UNEP (list above) are not included in this section:

Substance	CAS number	Substance	CAS number
Alkylphenols & Ethoxylates		Brominated flame retardants (Polybrominated diphenyl ethers (PBDE))	
Polybrominated biphenyls (PBB)		Butylated hydroxytoluene	128-37-0
Dicofol	115-32-2	4-(dimethylbutylamino)-diphenylamine	793-24-8
Endosulfan	115-29-7	Hexachlorocyclohexane (HCH) isomers	
Hexachloro-cyclopentadiene	77-47-4	Hexamethyldisiloxane	107-46-0
Lead and Organic lead compounds	7439-92-1	Mercury and Organic mercury compounds	7439-976
Methoxychlor	72-43-5	Pentachlorobenzene	608-93-5
Tin and Organic Tin compounds	7440-35-1	Pentachlorophenol	87-86-5

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Phthalates		Polyaromatic hydrocarbons	
Polychlorinated naphthalenes		Short/Medium chained chlorinated paraffins	85535-84-8/85535-85-9
Synthetic Musks e.g. Musk xylene, Polycyclic, Nitro-musks		Trichlorobenzene	12002-48-1
4-tert-butyltoluene	98-51-1	2,4,6-tri-tert-butylphenol	732-26-3

5. Other substances of concern:

Substance	CAS number	Substance	CAS number
Polychlorinated terphenyls (PCTs)	61788-33-8	Creosote	8001-58-9
Polybrominated Diphenyl ethers (PBDEs)		Perfluorooctanoate (PFOA)	335-67-1
Benzene and its derivatives	71-43-2	Perfluorooctanyl sulfonate (PFOS)	No CAS
Bisphenol A	80-05-7	PVC	9002-86-2
Triclosan	3380-34-5	Vinyl chloride	75-01-4

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6. Directive on the Restriction of the Use of Certain Hazardous Substances (RoHS) in Electrical and Electronic Equipment 2011/65/EU:

Listed in directive 2011/65/EU (commonly referred to as the **Restriction of Hazardous Substances Directive** or **RoHS**).

Substance	CAS number
Lead and its compounds	7439-92-1
Mercury and its compounds	7439-97-6
Hexavalent Chromium	7440-47-3
Cadmium and its compounds	7440-43-9
Polybrominated biphenyls (PBBs)	
Polybrominated Diphenyl ethers (PBDEs)	

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7. Candidate List of Substances of Very High Concern for Authorisation

Substances on the Candidate List may subsequently become subject to authorisation by decision of the European Commission. (The list will be regularly updated when more substances are identified as SVHC). SVHC substances aren't included in UPM pulp and paper products >0,1 % -w.

Last update 15 January 2019

Substance	EC number	CAS number
1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	239-139-9	15087-24-8
2,2-bis(4'-hydroxyphenyl)-4-methylpentane	401-720-1	6807-17-6
Benzo[k]fluoranthene	205-916-6	207-08-9
Fluoranthene	205-912-4	206-44-0; 93951-69-0
Phenanthrene	201-581-5	85-01-8
Pyrene	204-927-3	129-00-0; 1718-52-1
[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	219-943-6	2580-56-5
[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	208-953-6	548-62-9

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[Phthalato(2-)]dioxotrilead	273-688-5	69011-06-9
1,2,3-trichloropropane	202-486-1	96-18-4
1,2,5,6,9,10-hexabromocyclodecane	221-695-9	3194-55-6
1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters	271-094-0	68515-51-5
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters	-	-
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	276-158-1	71888-89-6
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	271-084-6	68515-42-4
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4
1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	284-032-2	84777-06-0
1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters	272-013-1	68648-93-1
1,2-bis(2-methoxyethoxy)ethane (TEGDME, triglyme)	203-977-3	112-49-2
1,2-dichloroethane	203-458-1	107-06-2
1,2-diethoxyethane	211-076-1	629-14-1
1,2-dimethoxyethane, ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4
1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	219-514-3	2451-62-9

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1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β -TGIC)	423-400-0	59653-74-6
1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	219-514-3	2451-62-9
1,2,3-Trichloropropane	202-486-1	96-18-4
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	276-158-1	71888-89-6
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with \geq 0.3% of dihexyl phthalate (EC No. 201-559-5)	271-094-0 272-013-1	68515-51-5 68648-93-1
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	271-084-6	68515-42-4
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	84777-06-0
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	203-977-3	112-49-2
1,2-dichloroethane	203-458-1	107-06-2
1,2-Diethoxyethane	211-076-1	629-14-1

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1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4
1,3-propanesultone	214-317-9	1120-71-4
1-bromopropane (n-propyl bromide)	203-445-0	106-94-5
1-Methyl-2-pyrrolidone	212-828-1	872-50-4
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6	3846-71-7
2-Ethoxyethyl acetate	203-839-2	111-15-9
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	239-622-4	15571-58-1
reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-	-
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1	36437-37-3
2,4-Dinitrotoluene	204-450-0	121-14-2
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	3864-99-1
2-Ethoxyethanol	203-804-1	110-80-5
2-Methoxyaniline; o-Anisidine	201-963-1	90-04-0
2-Methoxyethanol	203-713-7	109-86-4
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8	25973-55-1
2,2'-dichloro-4,4'-methylenedianiline	202-918-9	101-14-4
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2
4-Aminoazobenzene	200-453-6	60-09-3
4-Heptylphenol, branched and linear substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof	-	-

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4-methyl-m-phenylenediamine (toluene-2,4-diamine)	202-453-1	95-80-7
4-Nonylphenol, branched and linear <i>[substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]</i>	-	-
4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2	140-66-9
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated <i>[covering well-defined substances and UVCB substances, polymers and homologues]</i>	-	-
[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) <i>[with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]</i>	219-943-6	2580-56-5
[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) <i>[with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]</i>	208-953-6	548-62-9
4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5	90-94-8
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol <i>[with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]</i>	209-218-2	561-41-1
4,4'- Diaminodiphenylmethane (MDA)	202-974-4	101-77-9
4,4'- isopropylidenediphenol	201-245-8	80-05-7
4,4'-methylenedi-o-toluidine	212-658-8	838-88-0
4,4'-oxydianiline and its salts	202-977-0	101-80-4
5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-		

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(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	-	-
5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	201-329-4	81-15-2
6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8
α,α -Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	229-851-8	6786-83-0
Acetic acid, lead salt, basic	257-175-3	51404-69-4
Acrylamide	201-173-7	79-06-1
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins; SCCPs)	287-476-5	85535-84-8
Aluminosilicate, Refractory Ceramic Fibres	-	-
Ammonium dichromate	232-143-1	7789-09-5
Ammonium pentadecafluorooctanoate (APFO)	223-320-4	3825-26-1
Anthracene	204-371-1	120-12-7
Anthracene oil	292-602-7	90640-80-5
Anthracene oil, anthracene paste	292-603-2	90640-81-6
Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2
Anthracene oil, anthracene paste, distn. lights	295-278-5	91995-17-4
Anthracene oil, anthracene-low	292-604-8	90640-82-7

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Arsenic acid	231-901-9	7778-39-4
Benzo(def)chrysene	200-028-5	50-32-8
Benzyl butyl phthalate (BBP)	201-622-7	85-68-7
Biphenyl-4-ylamine	202-177-1	92-67-1
Bis (2-ethylhexyl)phthalate (DEHP)	204-211-0	117-81-7
Bis(2-methoxyethyl) ether	203-924-4	111-96-6
Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8
Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	214-604-9	1163-19-5
Bis(tributyltin)oxide (TBTO)	200-268-0	56-35-9
Boric acid	233-139-2/ 234-343-4	10043-35-3/ 11113-50-1
Cadmium	231-152-8	7440-43-9
Cadmium chloride	233-296-7	10108-64-2
Cadmium fluoride	232-222-0	7790-79-6
Cadmium oxide	215-146-2	1306-19-0
Cadmium sulphate	233-331-6	10124-36-4 31119-53-6
Cadmium sulphide	215-147-8	1306-23-6
Calcium arsenate	231-904-5	7778-44-1
Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid	231-801-5 - 236-881-5	7738-94-5 - 13530-68-2
Chromium trioxide	215-607-8	1333-82-0
Cobalt dichloride	231-589-4	7646-79-9
Cobalt (II) carbonate	208-169-4	513-79-1
Cobalt (II) diacetate	200-755-8	71-48-7
Cobalt (II) dinitrate	233-402-1	10141-05-6
Cobalt (II) sulphate	233-334-2	10124-43-3
Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride	201-604-9, 236-086-3,	85-42-7, 13149-00-3,

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[2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] <i>[The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry]</i>	238-009-9	14166-21-3
Diarsenic pentaoxide	215-116-9	1303-28-2
Diarsenic trioxide	215-481-4	1327-53-3
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	204-650-8	123-77-3
Diboron trioxide	215-125-8	1303-86-2
Dibutyl phthalate (DBP)	201-557-4	84-74-2
Dibutyltin dichloride (DBTC)	211-670-0	683-18-1
Dichromium tris(chromate)	246-356-2	24613-89-6
Diethyl sulphate	200-589-6	64-67-5
Dihexyl phthalate	201-559-5	84-75-3
Diisobutyl phthalate	201-553-2	84-69-5
Diisopentylphthalate	210-088-4	605-50-5
Dimethyl sulphate	201-058-1	77-78-1
Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-861-7	88-85-7
Dioxobis(stearate)trilead	235-702-8	12578-12-0
Dipentyl phthalate (DPP)	205-017-9	131-18-0
Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	209-358-4	573-58-0
Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] - 5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	217-710-3	1937-37-7
Disodium tetraborate, anhydrous	215-540-4	1330-43-4 12179-04-3 1303-96-4
Fatty acids, C16-18, lead salts	292-966-7	91031-62-8
Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4
Formamide	200-842-0	75-12-7

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Furan	203-727-3	110-00-9
Henicosfluoroundecanoic acid	218-165-4	2058-94-8
Heptacosfluorotetradecanoic acid	206-803-4	376-06-7
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	247-148-4 and 221-695-9	25637-99-4 and 3194-55-6 134237-50-6 134237-51-7 134237-52-8
Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] <i>[The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]</i>	247-094-1, 243-072-0, 256-356-4, 260-566-1	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9
Hydrazine	206-114-9	302-01-2/7803-57-8
Imidazolidine-2-thione; (2-imidazoline-2-thiol)	202-506-9	96-45-7
Lead bis(tetrafluoroborate)	237-486-0	13814-96-5
Lead(II) bis(methanesulfonate)	401-750-5	17570-76-2
Lead chromate	231-846-0	7758-97-6
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	235-759-9	12656-85-8
Lead cyanamidate	244-073-9	20837-86-9
Lead di(acetate)	206-104-4	301-04-2
Lead diazide, Lead azide	236-542-1	13424-46-9
Lead dinitrate	233-245-9	10099-74-8
Lead dipicrate	229-335-2	6477-64-1
Lead hydrogen arsenate	232-064-2	7784-40-9

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Lead monoxide (lead oxide)	215-267-0	1317-36-8
Lead oxide sulfate	234-853-7	12036-76-9
Lead styphnate	239-290-0	15245-44-0
Lead sulfochromate yellow (C.I. Pigment Yellow 34)	215-693-7	1344-37-2
Lead titanium trioxide	235-038-9	12060-00-3
Lead titanium zirconium oxide	235-727-4	12626-81-2
Methoxyacetic acid	210-894-6	625-45-6
Methyloxirane (Propylene oxide)	200-879-2	75-56-9
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1
N,N-dimethylacetamide	204-826-4	127-19-5
N,N-dimethylformamide	200-679-5	68-12-2
N-methylacetamide	201-182-6	79-16-3
N-pentyl-isopentylphthalate	-	776297-69-9
Nitrobenzene	202-716-0	98-95-3
Nonadecafluorodecanoic acid (PDFA) and its sodium and ammonium salts Nonadecafluorodecanoic acid Ammonium nonadecafluorodecanoate Decanoic acid, nonadecafluoro-, sodium salt	206-400-3 221-470-5 -	335-76-2 3108-42-7 3830-45-3
o-aminoazotoluene	202-591-2	97-56-3
o-Toluidine	202-429-0	95-53-4
Orange lead (lead tetroxide)	215-235-6	1314-41-6
p-(1,1 -dimethylpropyl)phenol	201-280-9	80-46-6
Pentacosafuorotridecanoic acid	276-745-2	72629-94-8
Pentadecafluorooctanoic acid (PFOA)	206-397-9	335-67-1
Pentalead tetraoxide sulphate	235-067-7	12065-90-6
Pentazinc chromate octahydroxide	256-418-0	49663-84-5
Perfluorononan-1-oi-c-acid and its sodium and ammonium salts	206-801-3	375-95-1 21049-39-8 4149-60-4

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Phenolphthalein	201-004-7	77-09-8
[Phthalato(2-)]dioxotrilead	273-688-5	69011-06-9
Pitch, coal tar, high temp.	266-028-2	65996-93-2
Potassium chromate	232-140-5	7789-00-6
Potassium dichromate	231-906-6	7778-50-9
Potassium hydroxyoctaoxodizincatedichromate	234-329-8	11103-86-9
Pyrochlore, antimony lead yellow	232-382-1	8012-00-8
Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped <i>[with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]</i>	272-271-5	68784-75-8
Silicic acid, lead salt	234-363-3	11120-22-2
Sodium chromate	231-889-5	7775-11-3
Sodium dichromate	234-190-3	7789-12-0 and 10588-01-9
Sodium perborate; perboric acid, sodium salt	239-172-9; 234-390-0	-
Sodium peroxometaborate	231-556-4	7632-04-4
Strontium chromate	232-142-6	7789-06-2
Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7
Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1
Tetraethyllead	201-075-4	78-00-2
Tetralead trioxide sulphate	235-380-9	12202-17-4
Trichloroethylene	201-167-4	79-01-6
Tricosafuorododecanoic acid	206-203-2	307-55-1

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Triethyl arsenate	427-700-2	15606-95-8
Trilead bis(carbonate)dihydroxide	215-290-6	1319-46-6
Trilead diarsenate	222-979-5	3687-31-8
Trilead dioxide phosphonate	235-252-2	12141-20-7
Tris(2-chloroethyl) phosphate	204-118-5	115-96-8
Trixylyl phosphate	246-677-8	25155-23-1
Zirconia Aluminosilicate, Refractory Ceramic Fibres	-	-

8. Directive on general product safety 2001/95/EC

Substance	CAS number
Dimethylfumarate - DMF	624-49-7

Sami Lundgren
Vice President, UPM Responsibility