

Candidate List of Substances of Very High Concern for Authorisation

(Published in accordance with Article 59(10) of the REACH Regulation)



Substance Name	EC Number	CAS Number	Date of inclusion	Reason for inclusion	Decision number
Perfluorohexane-1-sulphonic acid and its salts	-	-	07/07/2017	vPvB (Article 57e)	ED/30/2017
4,4'-isopropylidenediphenol Bisphenol A; BPA	201-245-8	80-05-7	12/01/2017	Toxic for reproduction (Article 57c)	ED/01/2017
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	-	-	12/01/2017	Equivalent level of concern having probable serious effects to environment (Article 57 f)	ED/01/2017
Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts show/hide Decanoic acid, nonadecafluoro-, sodium salt EC no.: - CAS no.: 3830-45-3 Ammonium nonadecafluorodecanoate EC no.: 221-470-5 CAS no.: 3108-42-7 Nonadecafluorodecanoic acid EC no.: 206-400-3 CAS no.: 335-76-2	-	-	12/01/2017	Toxic for reproduction (Article 57c) PBT (Article 57 d)	ED/01/2017
p-(1,1-dimethylpropyl)phenol	201-280-9	80-46-6	12/01/2017	Equivalent level of concern having probable serious effects to environment (Article 57 f)	ED/01/2017
Benzo[def]chrysene (Benzo[a]pyrene), Benzo[def]chrysene(Benzo[a]pyrene)	200-028-5	50-32-8	20/06/2016	Carcinogenic (Article 57a) Mutagenic (Article 57b) Toxic for reproduction (Article 57c) PBT (Article 57 d) vPvB (Article 57 e)	ED/21/2016
1,3-propanesultone	214-317-9	1120-71-4	2015/12/17	Carcinogenic (Article 57a)	ED/79/2015
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	3864-99-1	2015/12/17	vPvB (Article 57 e)	ED/79/2015
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1	36437-37-3	2015/12/17	vPvB (Article 57 e)	ED/79/2015
Nitrobenzene	202-716-0	98-95-3	2015/12/17	Toxic for reproduction (Article 57c)	ED/79/2015
Perfluorononan-1-oic-acid and its sodium and ammonium salts: Ammonium salts of perfluorononan-1-oic-acid EC no.: - CAS no.: -, 4149-60-4 Perfluorononan-1-oic-acid EC no.: 206-801-3 CAS no.: 375-95-1 Sodium salts of perfluorononan-1-oic-acid EC no.: - CAS no.: -, 21049-39-8	-	-	2015/12/17	Toxic for reproduction (Article 57c) PBT (Article 57 d)	ED/79/2015
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	271-094-0 272-013-1	68515-51-5 68648-93-1	2015/06/15	Toxic for reproduction (Article 57 c)	ED/39/2015
5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(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]	-	-	2015/06/15	vPvB (Article 57e)	ED/39/2015

Bis (2-ethylhexyl)phthalate (DEHP)	204-211-0	117-81-7	2014/12/17; 2008/10/28	Equivalent level of concern having probable serious effects to the environment (Article 57 f); Toxic for reproduction (article 57c)	ED/108/2014 ED/67/2008
Cadmium fluoride	232-222-0	7790-79-6	2014/12/17	Carcinogenic (Article 57 a); Mutagenic (Article 57 b); Toxic for reproduction (Article 57 c); Equivalent level of concern having probable serious effects to human health (Article 57 f)	ED/108/2014
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)	-	-	2014/12/17	Toxic for reproduction (Article 57 c)	ED/108/2014
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	239-622-4	15571-58-1	2014/12/17	Toxic for reproduction (Article 57 c)	ED/108/2014
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6	3846-71-7	2014/12/17	PBT (Article 57 d); vPvB (Article 57 e)	ED/108/2014
Cadmium sulphate	233-331-6	10124-36-4 31119-53-6	2014/12/17	Carcinogenic (Article 57 a); Mutagenic (Article 57 b); Toxic for reproduction (Article 57 c); Equivalent level of concern having probable serious effects to human health (Article 57 f)	ED/108/2014
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8	25973-55-1	2014/12/17	PBT (Article 57 d); vPvB (Article 57 e)	ED/108/2014
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4	2014/06/16	Toxic for reproduction (Article 57 c)	ED/49/2014
Sodium perborate; perboric acid, sodium salt	239-172-9; 234-390-0	-	2014/06/16	Toxic for reproduction (Article 57 c)	ED/49/2014
Sodium peroxometaborate	231-556-4	7632-04-4	2014/06/16	Toxic for reproduction (Article 57 c)	ED/49/2014
Cadmium chloride	233-296-7	10108-64-2	2014/06/16	Carcinogenic (Article 57a); Mutagenic (Article 57b); Toxic for reproduction (Article 57c); Equivalent level of concern having probable serious effects to human health (Article 57 f)	ED/49/2014
Cadmium sulphide	215-147-8	1306-23-6	2013/12/16	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)	ED/121/2013
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	2013/12/16	Carcinogenic (Article 57a);	ED/121/2013
Dihexyl phthalate	201-559-5	84-75-3	2013/12/16	Toxic for reproduction (Article 57 c);	ED/121/2013
Imidazolidine-2-thione; (2-imidazoline-2-thiol)	202-506-9	96-45-7	2013/12/16	Toxic for reproduction (Article 57 c);	ED/121/2013
Trixylyl phosphate	246-677-8	25155-23-1	2013/12/16	Toxic for reproduction (Article 57 c);	ED/121/2013
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	2013/12/16	Carcinogenic (Article 57a);	ED/121/2013
Lead di(acetate)	206-104-4	301-04-2	2013/12/16	Toxic for reproduction (Article 57 c);	ED/121/2013

Cadmium	231-152-8	7440-43-9	2013/06/20	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)	ED/69/2013
Ammonium pentadecafluorooctanoate (APFO)	223-320-4	3825-26-1	2013/06/20	Toxic for reproduction (Article 57 c); PBT (Article 57 d)	ED/69/2013
Pentadecafluorooctanoic acid (PFOA)	206-397-9	335-67-1	2013/06/20	Toxic for reproduction (Article 57 c); PBT (Article 57 d)	ED/69/2013
Dipentyl phthalate (DPP)	205-017-9	131-18-0	2013/06/20	Toxic for reproduction (Article 57 c);	ED/69/2013
4-Nonylphenol, branched and linear, ethoxylated [<i>substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof</i>]			2013/06/20	Equivalent level of concern having probable serious effects to the environment (Article 57 f)	ED/69/2013
Cadmium oxide	215-146-2	1306-19-0	2013/06/20	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)	ED/69/2013
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	2012/12/19	Equivalent level of concern having probable serious effects to human health (Article 57 f)	ED/169/2012
Pyrochlore, antimony lead yellow	232-382-1	8012-00-8	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8	2012/12/19	Carcinogenic (Article 57a)	ED/169/2012
Henicosafuoroundecanoic acid	218-165-4	2058-94-8	2012/12/19	vPvB (Article 57 e)	ED/169/2012
Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [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>]	201-604-9, 236-086-3, 238-009-9	85-42-7, 13149-00-3, 14166-21-3	2012/12/19	Equivalent level of concern having probable serious effects to human health (Article 57 f)	ED/169/2012
Dibutyltin dichloride (DBTC)	211-670-0	683-18-1	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
Lead bis(tetrafluoroborate)	237-486-0	13814-96-5	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
Lead dinitrate	233-245-9	10099-74-8	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
Silicic acid, lead salt	234-363-3	11120-22-2	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
4-Aminoazobenzene	200-453-6	60-09-3	2012/12/19	Carcinogenic (Article 57a)	ED/169/2012
Lead titanium zirconium oxide	235-727-4	12626-81-2	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
Lead monoxide (lead oxide)	215-267-0	1317-36-8	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
o-Toluidine	202-429-0	95-53-4	2012/12/19	Carcinogenic (Article 57a)	ED/169/2012
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3- oxazolidine	421-150-7	143860-04-2	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012

Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped [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]	272-271-5	68784-75-8	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
Trilead bis(carbonate)dihydroxide	215-290-6	1319-46-6	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
Furan	203-727-3	110-00-9	2012/12/19	Carcinogenic (Article 57a)	ED/169/2012
N,N-dimethylformamide	200-679-5	68-12-2	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	-	2012/12/19	Equivalent level of concern having probable serious effects to the environment (Article 57 f)	ED/169/2012
4-Nonylphenol, branched and linear [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]	-	-	2012/12/19	Equivalent level of concern having probable serious effects to the environment (Article 57 f)	ED/169/2012
4,4'-methylenedi-o-toluidine	212-658-8	838-88-0	2012/12/19	Carcinogenic (Article 57a)	ED/169/2012
Diethyl sulphate	200-589-6	64-67-5	2012/12/19	Carcinogenic (Article 57a); Mutagenic (Article 57b)	ED/169/2012
Dimethyl sulphate	201-058-1	77-78-1	2012/12/19	Carcinogenic (Article 57a)	ED/169/2012
Lead oxide sulfate	234-853-7	12036-76-9	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
Lead titanium trioxide	235-038-9	12060-00-3	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
Acetic acid, lead salt, basic	257-175-3	51404-69-4	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
[Phthalato(2-)]dioxotrilead	273-688-5	69011-06-9	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	214-604-9	1163-19-5	2012/12/19	PBT (Article 57 d); vPvB (Article 57 e)	ED/169/2012
N-methylacetamide	201-182-6	79-16-3	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-861-7	88-85-7	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
1,2-Diethoxyethane	211-076-1	629-14-1	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
Tetralead trioxide sulphate	235-380-9	12202-17-4	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
N-pentyl-isopentylphthalate	-	776297-69-9	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
Dioxobis(stearato)trilead	235-702-8	12578-12-0	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
Tetraethyllead	201-075-4	78-00-2	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
Pentalead tetraoxide sulphate	235-067-7	12065-90-6	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
Pentacosaflluorotridecanoic acid	276-745-2	72629-94-8	2012/12/19	vPvB (Article 57 e)	ED/169/2012
Tricosaflluorododecanoic acid	206-203-2	307-55-1	2012/12/19	vPvB (Article 57 e)	ED/169/2012
Heptacosaflluorotetradecanoic acid	206-803-4	376-06-7	2012/12/19	vPvB (Article 57 e)	ED/169/2012
1-bromopropane (n-propyl bromide)	203-445-0	106-94-5	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
Methoxyacetic acid	210-894-6	625-45-6	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
4-methyl-m-phenylenediamine (toluene-2,4-diamine)	202-453-1	95-80-7	2012/12/19	Carcinogenic (Article 57a)	ED/169/2012

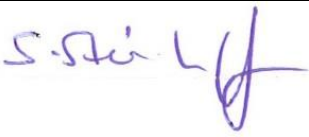

Methyloxirane (Propylene oxide)	200-879-2	75-56-9	2012/12/19	Carcinogenic (Article 57a); Mutagenic (Article 57b)	ED/169/2012
Trilead dioxide phosphonate	235-252-2	12141-20-7	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
o-aminoazotoluene	202-591-2	97-56-3	2012/12/19	Carcinogenic (Article 57a)	ED/169/2012
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	84777-06-0	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
4,4'-oxydianiline and its salts	202-977-0	101-80-4	2012/12/19	Carcinogenic (Article 57a); Mutagenic (Article 57b)	ED/169/2012
Orange lead (lead tetroxide)	215-235-6	1314-41-6	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
Biphenyl-4-ylamine	202-177-1	92-67-1	2012/12/19	Carcinogenic (Article 57a)	ED/169/2012
Diisopentylphthalate	210-088-4	605-50-5	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
Fatty acids, C16-18, lead salts	292-966-7	91031-62-8	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	204-650-8	123-77-3	2012/12/19	Equivalent level of concern having probable serious effects to human health (Article 57 f)	ED/169/2012
Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
Lead cyanamidate	244-073-9	20837-86-9	2012/12/19	Toxic for reproduction (Article 57 c)	ED/169/2012
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	2012/06/18	Carcinogenic (Article 57a)	ED/87/2012
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1	2012/06/18	Carcinogenic (Article 57a)	ED/87/2012
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	2012/06/18	Mutagenic (Article 57b)	ED/87/2012
Diboron trioxide	215-125-8	1303-86-2	2012/06/18	Toxic for reproduction (Article 57 c)	ED/87/2012
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	203-977-3	112-49-2	2012/06/18	Toxic for reproduction (Article 57 c)	ED/87/2012
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	209-218-2	561-41-1	2012/06/18	Carcinogenic (Article 57a)	ED/87/2012
Lead(II) bis(methanesulfonate)	401-750-5	17570-76-2	2012/06/18	Toxic for reproduction (Article 57 c)	ED/87/2012
Formamide	200-842-0	75-12-7	2012/06/18	Toxic for reproduction (Article 57 c)	ED/87/2012
[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	208-953-6	548-62-9	2012/06/18	Carcinogenic (Article 57a)	ED/87/2012
USED IN VERY SMALL AMOUNTS -SEE PAGE 9					
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4	2012/06/18	Toxic for reproduction (Article 57 c)	ED/87/2012
[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	219-943-6	2580-56-5	2012/06/18	Carcinogenic (Article 57a)	ED/87/2012
1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	219-514-3	2451-62-9	2012/06/18	Mutagenic (Article 57b)	ED/87/2012
4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5	90-94-8	2012/06/18	Carcinogenic (Article 57a)	ED/87/2012

4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2	140-66-9	2011/12/19	Equivalent level of concern having probable serious effects to the environment (article 57 f)	ED/77/2011
N,N-dimethylacetamide	204-826-4	127-19-5	2011/12/19	Toxic for reproduction (article 57 c)	ED/77/2011
Phenolphthalein	201-004-7	77-09-8	2011/12/19	Carcinogenic (article 57 a)	ED/77/2011
Lead diazide, Lead azide	236-542-1	13424-46-9	2011/12/19	Toxic for reproduction (article 57 c),	ED/77/2011
Lead dipicrate	229-335-2	6477-64-1	2011/12/19	Toxic for reproduction (article 57 c)	ED/77/2011
1,2-dichloroethane	203-458-1	107-06-2	2011/12/19	Carcinogenic (article 57 a)	ED/77/2011
Calcium arsenate	231-904-5	7778-44-1	2011/12/19	Carcinogenic (article 57 a)	ED/77/2011
Dichromium tris(chromate)	246-356-2	24613-89-6	2011/12/19	Carcinogenic (article 57 a)	ED/77/2011
2-Methoxyaniline; o-Anisidine	201-963-1	90-04-0	2011/12/19	Carcinogenic (article 57 a)	ED/77/2011
Pentazinc chromate octahydroxide	256-418-0	49663-84-5	2011/12/19	Carcinogenic (article 57 a)	ED/77/2011
Arsenic acid	231-901-9	7778-39-4	2011/12/19	Carcinogenic (article 57 a)	ED/77/2011
Potassium hydroxyoctaoxidizincatedichromate	234-329-8	11103-86-9	2011/12/19	Carcinogenic (article 57 a)	ED/77/2011
Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4	2011/12/19	Carcinogenic (article 57 a)	ED/77/2011
Lead styphnate	239-290-0	15245-44-0	2011/12/19	Toxic for reproduction (article 57 c)	ED/77/2011
Trilead diarsenate	222-979-5	3687-31-8	2011/12/19	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)	ED/77/2011
Zirconia Aluminosilicate Refractory Ceramic Fibres <i>are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm). c) alkaline oxide and alkali earth oxide (Na₂O+K₂O+CaO+MgO+BaO) content less or equal to 18% by weight</i>			2011/12/19	Carcinogenic (article 57 a)	ED/77/2011 / ED/95/2012
Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8	2011/12/19	Toxic for reproduction (article 57 c)	ED/77/2011
Aluminosilicate Refractory Ceramic Fibres <i>are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm) c) alkaline oxide and alkali earth oxide (Na₂O+K₂O+CaO+MgO+BaO) content less or equal to 18% by weight</i>			2011/12/19	Carcinogenic (article 57 a)	ED/77/2011 / ED/95/2012
Bis(2-methoxyethyl) ether	203-924-4	111-96-6	2011/12/19	Toxic for reproduction (article 57 c)	ED/77/2011
2,2'-dichloro-4,4'-methylenedianiline	202-918-9	101-14-4	2011/12/19	Carcinogenic (article 57 a)	ED/77/2011
Cobalt dichloride	231-589-4	7646-79-9	2011/06/20 - 2008/10/28	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)	ED/31/2011 / ED/67/2008

1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	276-158-1	71888-89-6	2011/06/20	Toxic for reproduction (article 57c)	ED/31/2011
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	271-084-6	68515-42-4	2011/06/20	Toxic for reproduction (article 57c)	ED/31/2011
Strontium chromate	232-142-6	7789-06-2	2011/06/20	Carcinogenic (article 57a)	ED/31/2011
1-Methyl-2-pyrrolidone	212-828-1	872-50-4	2011/06/20	Toxic for reproduction (article 57c)	ED/31/2011
	USED IN VERY SMALL AMOUNTS -SEE PAGE 9				
1,2,3-Trichloropropane	202-486-1	96-18-4	2011/06/20	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)	ED/31/2011
2-Ethoxyethyl acetate	203-839-2	111-15-9	2011/06/20	Toxic for reproduction (article 57c)	ED/31/2011
Hydrazine	206-114-9	302-01-2, 7803-57-8	2011/06/20	Carcinogenic (article 57a)	ED/31/2011
Cobalt(II) diacetate	200-755-8	71-48-7	2010/12/15	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)	ED/95/2010
Cobalt(II) sulphate	233-334-2	10124-43-3	2010/12/15	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)	ED/95/2010
2-Ethoxyethanol	203-804-1	110-80-5	2010/12/15	Toxic for reproduction (article 57c)	ED/95/2010
Acids generated from chromium trioxide and their oligomers. Names of the acids and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid.	231-801-5, 236-881-5	7738-94-5, 13530-68-2	2010/12/15	Carcinogenic (article 57a)	ED/95/2010
2-Methoxyethanol	203-713-7	109-86-4	2010/12/15	Toxic for reproduction (article 57c)	ED/95/2010
Chromium trioxide	215-607-8	1333-82-0	2010/12/15	Carcinogenic and mutagenic (articles 57 a and 57 b)	ED/95/2010
Cobalt(II) carbonate	208-169-4	513-79-1	2010/12/15	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)	ED/95/2010
Cobalt(II) dinitrate	233-402-1	10141-05-6	2010/12/15	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)	ED/95/2010
Trichloroethylene	201-167-4	79-01-6	2010/06/18	Carcinogenic (article 57 a)	ED/30/2010
Potassium dichromate	231-906-6	7778-50-9	2010/06/18	Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)	ED/30/2010
Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1	2010/06/18	Toxic for reproduction (article 57 c)	ED/30/2010
Ammonium dichromate	232-143-1	7789-09-5	2010/06/18	Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)	ED/30/2010
Boric acid	233-139-2, 234-343-4	10043-35-3, 11113-50-1	2010/06/18	Toxic for reproduction (article 57 c)	ED/30/2010
Sodium chromate	231-889-5	7775-11-3	2010/06/18	Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)	ED/30/2010
Disodium tetraborate, anhydrous	215-540-4	1303-96-4, 1330-43-4, 12179-04-3	2010/06/18	Toxic for reproduction (article 57 c)	ED/30/2010
Potassium chromate	232-140-5	7789-00-6	2010/06/18	Carcinogenic and mutagenic (articles 57 a and 57 b).	ED/30/2010
Acrylamide	201-173-7	79-06-1	2010/03/30	Carcinogenic and mutagenic (articles 57 a and 57 b)	ED/68/2009
Lead sulfochromate yellow (C.I. Pigment Yellow 34)	215-693-7	1344-37-2	2010/01/13	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)	ED/68/2009
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	235-759-9	12656-85-8	2010/01/13	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)	ED/68/2009

Anthracene oil	292-602-7	90640-80-5	2010/01/13	Carcinogenic ¹ , PBT and vPvB (articles 57a, 57d and 57e)	ED/68/2009
2,4-Dinitrotoluene	204-450-0	121-14-2	2010/01/13	Carcinogenic (article 57a)	ED/68/2009
Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2	2010/01/13	Carcinogenic ² , mutagenic ³ , PBT and vPvB (articles 57a, 57b, 57d and 57e)	ED/68/2009
Anthracene oil, anthracene-low	292-604-8	90640-82-7	2010/01/13	Carcinogenic ² , mutagenic ³ , PBT and vPvB (articles 57a, 57b, 57d and 57e)	ED/68/2009
Tris(2-chloroethyl)phosphate	204-118-5	115-96-8	2010/01/13	Toxic for reproduction (article 57c)	ED/68/2009
Diisobutyl phthalate	201-553-2	84-69-5	2010/01/13	Toxic for reproduction (article 57c)	ED/68/2009
Lead chromate	231-846-0	7758-97-6	2010/01/13	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)	ED/68/2009
Anthracene oil, anthracene paste	292-603-2	90640-81-6	2010/01/13	Carcinogenic ² , mutagenic ³ , PBT and vPvB (articles 57a, 57b, 57d and 57e)	ED/68/2009
Pitch, coal tar, high temp.	266-028-2	65996-93-2	2010/01/13	Carcinogenic, PBT and vPvB (articles 57a, 57d and 57e)	ED/68/2009
Anthracene oil, anthracene paste, distn. lights	295-278-5	91995-17-4	2010/01/13	Carcinogenic ² , mutagenic ³ , PBT and vPvB (articles 57a, 57b, 57d and 57e)	ED/68/2009
Lead hydrogen arsenate	232-064-2	7784-40-9	2008/10/28	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)	ED/67/2008
Benzyl butyl phthalate (BBP)	201-622-7	85-68-7	2008/10/28	Toxic for reproduction (article 57c)	ED/67/2008
5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	201-329-4	81-15-2	2008/10/28	vPvB (article 57e)	ED/67/2008
Diarsenic trioxide	215-481-4	1327-53-3	2008/10/28	Carcinogenic (article 57a)	ED/67/2008
Bis(tributyltin)oxide (TBTO)	200-268-0	56-35-9	2008/10/28	PBT (article 57d)	ED/67/2008
Triethyl arsenate	427-700-2	15606-95-8	2008/10/28	Carcinogenic (article 57a)	ED/67/2008
Diarsenic pentaoxide	215-116-9	1303-28-2	2008/10/28	Carcinogenic (article 57a)	ED/67/2008
Sodium dichromate	234-190-3	7789-12-0, 10588-01-9	2008/10/28	Carcinogenic, mutagenic and toxic for reproduction (articles 57a, 57b and 57c)	ED/67/2008
Dibutyl phthalate (DBP)	201-557-4	84-74-2	2008/10/28	Toxic for reproduction (article 57c)	ED/67/2008
4,4'- Diaminodiphenylmethane (MDA)	202-974-4	101-77-9	2008/10/28	Carcinogenic (article 57a)	ED/67/2008
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476-5	85535-84-8	2008/10/28	PBT and vPvB (articles 57 d and 57 e)	ED/67/2008
Anthracene	204-371-1	120-12-7	2008/10/28	PBT (article 57d)	ED/67/2008
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	247-148-4 and 221-695-9	25637-99-4, 3194-55-6 (134237-50-6) (134237-51-7) (134237-52-8)	2008/10/28	PBT (article 57d)	ED/67/2008

IXYS UK Westcode Ltd. do not use any of these "Substances of Very High Concern" directly, or to the best of our knowledge indirectly through products supplied to us from our suppliers. Alterations or exceptions to the original REACH list of "Substances of Very High Concern" are given below.

	
S. Steinhoff: Chief Technical Officer	F. Wakeman: Marketing and Technical Support Manager

Exception to REACH list of “Substances of Very High Concern”

Substance name	EC No.	CAS No.*	Date of inclusion	Reason for inclusion
1-Methyl-2-pyrrolidone	212-828-1	872-50-4	11/06/20	Toxic for reproduction (article 57c)
	<p>This substance, also known as NMP, is used in IXYS UK as solvent in Polyimides, which are essential as coatings in many Semiconductor devices. In the curing process of that polymer all solvents are baked out. Therefore no residues of NMP can be found in IXYS UK products in excess of 0.1%.</p>			
[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	208-953-6	548-62-9	12/06/18	Carcinogenic (Article 57a)
	<p>Used in the make-up of PL177 Photoresist, used in the clean room, in very small amount <0.25% concentration</p>			