

Attachment

Excerpt - Candidate List of Substances of Very High Concern

Effective: October 28th 2008

<u>Substance name</u>	<u>EC number</u>
1. Anthracene	204-371-1
2. 4,4'- Diaminodiphenylmethane	202-974-4
3. Dibutyl phthalate	201-557-4
4. Cobalt dichloride	231-589-4
5. Diarsenic pentaoxide	215-116-9
6. Diarsenic trioxide	215-481-4
7. Sodium dichromate	234-190-3
8. 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	201-329-4
9. Bis (2-ethyl(hexyl)phthalate) (DEHP)	204-211-0
10. Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β -HBCDD, γ -HBCDD)	247-148-4, 221-695-9
11. Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476-5
12. Bis(tributyltin)oxide	200-268-0
13. Lead hydrogen arsenate	232-064-2
14. Benzyl butyl phthalate	201-622-7
15. Triethyl arsenate	427-700-2

Effective: January 13th 2010

<u>Substance name</u>	<u>EC number</u>
1. Anthracene oil	292-602-7
2. Anthracene oil, anthracene paste, distn. Lights	295-278-5
3. Anthracene oil, anthracene paste, anthracene fraction	295-275-9
4. Anthracene oil, anthracene-low	292-604-8
5. Anthracene oil, anthracene paste	292-603-2
6. Coal tar pitch, high temperature	266-028-2
7. Aluminosilicate, Refractory Ceramic Fibres	(650-017-00-8) ¹
8. Zirconia Aluminosilicate, Refractory Ceramic Fibres	(650-017-00-8) ¹
9. 2,4-Dinitrotoluene	204-450-0
10. Diisobutyl phthalate	201-553-2
11. Lead chromate	231-846-0
12. Lead chromate molybdate sulfate red (C.I. Pigment Red 104)	235-759-9
13. Lead sulfochromate yellow (C.I. Pigment Yellow 34)	215-693-7
14. Tris(2-chloroethyl)phosphate	204-118-5

Effective: March 30th 2010

<u>Substance name</u>	<u>EC number</u>
1. Acrylamide	201-173-7

¹ Index number in Annex VI 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

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ONE STEP AHEAD.

Effective: June 18th 2010

<u>Substance name</u>	<u>EC number</u>
1. Trichloroethylene	201-167-4
2. Potassium dichromate	231-906-6
3. Tetraboron disodium heptaoxide, hydrate	235-541-3
4. Ammonium dichromate	232-143-1
5. Boric acid	233-139-2, 234-343-4
6. Sodium chromate	231-889-5
7. Disodium tetraborate, anhydrous	215-540-4
8. Potassium chromate	232-140-5

Effective: December 15th 2010

<u>Substance name</u>	<u>EC number</u>
1. Cobalt(II) diacetate	200-755-8
2. Cobalt(II) sulphate	233-334-2
3. 2-Ethoxyethanol	203-804-1
4. 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
5. 2-Methoxyethanol	203-713-7
6. Chromium trioxide	215-607-8
7. Cobalt(II) carbonate	208-169-4
8. Cobalt(II) dinitrate	233-402-1

Effective: June 20th 2011

<u>Substance name</u>	<u>EC number</u>
1. 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	276-158-1
2. 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	271-084-6
3. Strontium chromate	232-142-6
4. 1-Methyl-2-pyrrolidone	212-828-1
5. 1,2,3-Trichloropropane	202-486-1
6. 2-Ethoxyethyl acetate	203-839-2
7. Hydrazine	206-114-9
8. Cobalt dichloride	231-589-4

Effective: December 19th 2011

<u>Substance name</u>	<u>EC number</u>
1. 4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2
2. N,N-dimethylacetamide	204-826-4
3. Phenolphthalein	201-004-7
4. Lead diazide, Lead azide	236-542-1
5. Lead dipicrate	29-335-2
6. 1,2-dichloroethane	203-458-1
7. Calcium arsenate	231-904-5
8. Dichromium tris(chromate)	246-356-2
9. 2-Methoxyaniline; o-Anisidine	201-963-1
10. Pentazinc chromate octahydroxide	256-418-0

11. Arsenic acid	231-901-9
12. Potassium hydroxyoctaoxodizincatedichromate	234-329-8
13. Formaldehyde, oligomeric reaction products with aniline	500-036-1
14. Lead styphnate	239-290-0
15. Trilead diarsenate	222-979-5
16. Zirconia Aluminosilicate Refractory Ceramic Fibres 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 (Na ₂ O+K ₂ O+CaO+MgO+BaO) content less or equal to 18% by weight	-
17. Bis(2-methoxyethyl) phthalate	204-212-6
18. Aluminosilicate Refractory Ceramic Fibres 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 (Na ₂ O+K ₂ O+CaO+MgO+BaO) content less or equal to 18% by weight	-
19. Bis(2-methoxyethyl) ether	203-924-4
20. 2,2'-dichloro-4,4'-methylenedianiline	202-918-9

Effective: June 18th 2012

<u>Substance name</u>	<u>EC number</u>
1. α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	229-851-8
2. N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2
3. 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
4. Diboron trioxide	215-125-8
5. (TEGDME; triglyme)	203-977-3
6. 4,4'-bis(dimethylamino)-4''-(methylamino) trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	209-218-2
7. Lead(II) bis(methanesulfonate)	401-750-5
8. Formamide	200-842-0
9. [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
10. 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	203-794-9

11. [4-[[4-anilino-1-naphthyl]][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	219-943-6	-
12. 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)		219-514-3
13. 4,4'-bis(dimethylamino)benzophenone (Michler's ketone)		202-027-5

Effective: June 18th 2012

<u>Substance name</u>		<u>EC number</u>
1. Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)		214-604-9
2. Pentacosaflluorotridecanoic acid		276-745-2
3. Tricosaflluorododecanoic acid		206-203-2
4. Henicosaflluoroundecanoic acid		218-165-4
5. Heptacosaflluorotetradecanoic acid		206-803-4
6. Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))		204-650-8
7. 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
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
9. 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>		-
10. 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated <i>[covering well-defined substances and UVCB substances, polymers and homologues]</i>		-
11. Methoxyacetic acid		210-894-6
12. N,N-dimethylformamide		200-679-5
13. Dibutyltin dichloride (DBTC)		211-670-0
14. Lead monoxide (Lead oxide)		215-267-0
15. Orange lead (Lead tetroxide)		215-235-6
16. Lead bis(tetrafluoroborate)		237-486-0
17. Trilead bis(carbonate)dihydroxide		215-290-6
18. Lead titanium trioxide		235-038-9
19. Lead titanium zirconium oxide		235-727-4
20. Silicic acid, lead salt		234-363-3
21. 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
22. 1-bromopropane (n-propyl bromide)		203-445-0
23. Methyloxirane (Propylene oxide)		200-879-2

24. 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2
25. Diisopentylphthalate (DIPP)	210-088-4
26. N-pentyl-isopentylphthalate	-
27. 1,2-diethoxyethane	211-076-1
28. Acetic acid, lead salt, basic	257-175-3
29. Lead oxide sulfate	234-853-7
30. [Phthalato(2-)]dioxotrilead	273-688-5
31. Dioxobis(stearato)trilead	235-702-8
32. Fatty acids, C16-18, lead salts	292-966-7
33. Lead cyanamide	244-073-9
34. Lead dinitrate	233-245-9
35. Pentalead tetraoxide sulphate	235-067-7
36. Pyrochlore, antimony lead yellow	232-382-1
37. Sulfurous acid, lead salt, dibasic	263-467-1
38. Tetraethyllead	201-075-4
39. Tetralead trioxide sulphate	235-380-9
40. Trilead dioxide phosphonate	235-252-2
41. Furan	203-727-3
42. Diethyl sulphate	200-589-6
43. Dimethyl sulphate	201-058-1
44. 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7
45. Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-861-7
46. 4,4'-methylenedi- <i>o</i> -toluidine	212-658-8
47. 4,4'-oxydianiline and its salts	202-977-0
48. 4-aminoazobenzene	200-453-6
49. 4-methyl- <i>m</i> -phenylenediamine (toluene-2,4-diamine)	202-453-1
50. 6-methoxy- <i>m</i> -toluidine (p-cresidine)	204-419-1
51. Biphenyl-4-ylamine	202-177-1
52. <i>o</i> -aminoazotoluene [(4- <i>o</i> -tolylazo- <i>o</i> -toluidine)]	202-591-2
53. <i>o</i> -toluidine	202-429-0
54. <i>N</i> -methylacetamide	201-182-6

Effective: December 19th 2012

<u>Substance name</u>	<u>EC number</u>
1. Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	214-604-9
2. Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] [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]	247-094-1, 243 256-356-4, 260-566-1
3. 6-methoxy- <i>m</i> -toluidine (p-cresidine)	204-419-1
4. Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] [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]	201-604-9, 236-086-3, 238-009-9
5. Pyrochlore, antimony lead yellow	232-382-1
6. Henicosafuoroundecanoic acid	218-165-4
7. 4-Aminoazobenzene	200-453-6
8. Silicic acid, lead salt	234-363-3
9. Lead titanium zirconium oxide	235-727-4
10. Lead monoxide (lead oxide)	215-267-0
11. <i>o</i> -Toluidine	202-429-0

12. 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7
13. Dibutyltin dichloride (DBTC)	211-670-0
14. Lead bis(tetrafluoroborate)	237-486-0
15. Lead dinitrate	233-245-9
16. 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
17. Trilead bis(carbonate)dihydroxide	215-290-6
18. 4,4'-methylenedi-o-toluidine	212-658-8
19. Diethyl sulphate	200-589-6
20. Dimethyl sulphate	201-058-1
21. N,N-dimethylformamide	200-679-5
22. 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated <i>[covering well-defined substances and UVCB substances, polymers and homologues]</i>	-
23. 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>	-
24. Furan	203-727-3
25. Lead oxide sulfate	234-853-7
26. Lead titanium trioxide	235-038-9
27. Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	214-604-9
28. Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-861-7
29. 1,2-Diethoxyethane	211-076-1
30. N-methylacetamide	201-182-6
31. Tetralead trioxide sulphate	235-380-9
32. Acetic acid, lead salt, basic	257-175-3
33. [Phthalato(2-)]dioxotrilead	273-688-5
34. Tetraethyllead	201-075-4
35. N-pentyl-isopentylphthalate	-
36. Pentalead tetraoxide sulphate	235-067-7
37. Heptacosafuorotetradecanoic acid	206-803-4
38. Tricosafuorododecanoic acid	206-203-2
39. 1-bromopropane (n-propyl bromide)	203-445-0
40. Dioxobis(stearato)trilead	235-702-8
41. Pentacosafuorotridecanoic acid	276-745-2
42. Methoxyacetic acid	210-894-6
43. Methyloxirane (Propylene oxide)	200-879-2
44. Trilead dioxide phosphonate	235-252-2
45. o-aminoazotoluene	202-591-2
46. 4-methyl-m-phenylenediamine (toluene-2,4-diamine)	202-453-1
47. Diisopentylphthalate	210-088-4
48. 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2
49. Biphenyl-4-ylamine	202-177-1
50. Fatty acids, C16-18, lead salts	292-966-7
51. Orange lead (lead tetroxide)	215-235-6
52. 4,4'-oxydianiline and its salts	202-977-0
53. Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	204-650-8
54. Sulfurous acid, lead salt, dibasic	263-467-1
55. Lead cyanamidate	244-073-9

Effective: June 20th 2013

<u>Substance name</u>	<u>EC number</u>
1. Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	214-604-9
2. Cadmium	231-152-8
3. Ammonium pentadecafluorooctanoate (APFO)	223-320-4
4. Pentadecafluorooctanoic acid (PFOA)	206-397-9
5. Dipentyl phthalate (DPP)	205-017-9
6. 4-Nonylphenol, branched and linear, ethoxylated [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]	-
7. Cadmium oxide	215-146-2

Effective: December 16th 2013

<u>Substance name</u>	<u>EC number</u>
1. Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis (4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	209-358-4
2. Dihexyl phthalate	201-559-5
3. Lead di(acetate)	206-104-4
4. Imidazolidine-2-thione; (2-imidazoline-2-thiol)	202-506-9
5. 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
6. Trixylyl phosphate	246-677-8
7. Cadmium sulphide	215-147-8

Effective: June 16th 2014

<u>Substance name</u>	<u>EC number</u>
1. Cadmium chloride	233-296-7
2. Sodium peroxometaborate	231-556-4
3. Sodium perborate; perboric acid, sodium salt	239-172-9; 234-390-0
4. 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5

Effective: December 17th 2014

<u>Substance name</u>	<u>EC number</u>
8. Cadmium sulphate	233-331-6
9. Cadmium fluoride	232-222-0
10. 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8
11. 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)	-
12. 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	239-622-4
13. 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6
14. Bis(2-ethylhexyl) phthalate (DEHP)	204-211-0

Effective: June 15th 2015

<u>Substance name</u>	<u>EC number</u>
1. 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]	-
2. 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters;	271-094-0
1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate (EC No. 201-559-5)	272-013-1 -

Effective: December 17th 2015

<u>Substance name</u>	<u>EC number</u>
1. Perfluorononan-1-oic-acid and its sodium and ammonium salts	206-801-3
2. Nitrobenzene	202-716-0
3. 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1
4. 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8
5. 1,3-propanesultone	214-317-9

Effective: June 20th 2016

<u>Substance name</u>	<u>EC number</u>
1. Benzo[def]chrysene (Benzo[a]pyrene),	200-028-5

Effective: January 12th 2017

<u>Substance name</u>	<u>EC number</u>
1. p p-(1,1-dimethylpropyl)phenol,	201-280-9
2. Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	-
3. 4-heptylphenol, branched and linear	-
4. 4,4'-isopropylidenediphenol	201-245-8

Effective: July 07th 2017

<u>Substance name</u>	<u>EC number</u>
1. Perfluorohexane-1-sulphonic acid and its salts	-

Effective: January 15th 2018

<u>Substance name</u>	<u>EC number</u>
1. Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)	-
2. Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™)	-
3. Chrysene	205-923-4
4. Cadmium nitrate	233-710-6
5. Cadmium hydroxide	244-168-5
6. Cadmium carbonate	208-168-9
7. Benz[a]abthracene	200-280-6

Effective: June 27th 2018

<u>Substance name</u>	<u>EC number</u>
1. Terphenyl, hydrogenated	262-967-7
2. Octamethylcyclotetrasiloxane	209-136-7
3. Lead	231-100-4
4. Ethylenediamine	203-468-6
5. Dodecamethylcyclohexasiloxane	208-762-8
6. Disodium octaborate	234-541-0
7. Dicyclohexyl phthalate	201-545-9
8. Decamethylcyclopentasiloxane	208-764-9
9. Benzo[ghi]perylene	205-883-8
10. Benzene-1,2,4-tricarboxylic acid 1,2 anhydride	209-008-0

The current candidate list is published on the following ECHA webpage
<https://echa.europa.eu/de/candidate-list-table>