

EU Regulation EC (No.) 1907/2006

Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Candidate list for Substances of Very High Concern (SVHC)

Dear customer,

According to article 59 of REACH, substances are included in the so called Candidate List (see Attachment) since they have been identified as Substances of Very High Concern (SVHC). These substances may have very serious and often irreversible effects on humans and the environment. Substances on the Candidate List may subsequently become subject to Authorisation by decision of the European Commission.

According to the requirements of REACH article 31 (1), suppliers of substances or preparations shall provide the recipient of the substance or preparation with a safety data sheet where a substance as such or as part of the preparation is included in the Candidate list.

According to the requirements of REACH article 33, suppliers of articles, which contain one or more substances listed on the Candidate List in a concentration above 0.1% (w/w), must provide sufficient information including, as a minimum, the name of the relevant substance. The steel products supplied to you are to be defined as articles in compliance with the REACH regulation, article 3, item 3. When used under normally reasonably foreseeable conditions, our products are not intended to release any of the constituent substances.

We assert, that due to our current knowledge the products supplied to you, do not contain any of the substances published on the recent Candidate List above 0.1%-(w/w). Thus we are currently not obliged, to further specify the substances contained in our products according to article 33 of REACH regulation.

Of course we are continually reviewing the status of the Candidate List within our company and will inform you if any relevant changes occur.

We hope that we have been able to sufficiently answer your questions. Should you have any further questions do not hesitate to contact us or visit the REACH section on our website.

Sincerely,



Eva-Lill Bergenfur
Manager operational management system and Occupational Health and Safety
Uddeholms AB

Attachment:

Candidate List of Substances of Very High Concern

EU Regulation EC (No.) 1907/2006

Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Attachment

Excerpt - Candidate List of Substances of Very High Concern

Effective: October 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 and 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) ²
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

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

² 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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Effective: March 30th 2010

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

Effective: June 18th 2010

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

Effective: December 15th 2010

<u>Substance name</u>	<u>EC number</u>
1. Cobalt(II) sulphate	233-334-2
2. Cobalt(II) dinitrate	233-402-1
3. Cobalt(II) carbonate	208-169-4
4. Cobalt(II) diacetate	200-755-8
5. 2-Methoxyethanol	203-713-7
6. 2-ethoxyethanol	203-804-1
7. Chromium trioxide	215-607-8
8. Acids generated from chromium trioxide and their oligomers: Group containing:	
Chromic acid	231-801-5
Dichromic acid	236-881-5
Oligomers of chromic acid And dichromic acid	Not yet assigned

Effective: June 20th 2011

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

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Effective: December 19th 2011

<u>Substance name</u>	<u>EC number</u>
1. Calcium arsenate	231-904-5
2. Bis(2-methoxyethyl) ether	203-924-4
3. Potassium hydroxyoctaoxodizincatedichromate	234-329-8
4. Lead dipicrate	229-335-2
5. N,N-dimethylacetamide	204-826-4
6. Arsenic acid	231-901-9
7. 2-Methoxyaniline; o-Anisidine	201-963-1
8. Trilead diarsenate	222-979-5
9. 1,2-dichloroethane	203-458-1
10. Pentazinc chromate octahydroxide	256-418-0
11. Formaldehyde, oligomeric reaction products with aniline	500-036-1
12. Bis(2-methoxyethyl) phthalate	204-212-6
13. 4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2
14. Lead diazide, Lead azide	236-542-1
15. Phenolphthalein	201-004-7
16. Dichromium tris(chromate)	246-356-2
17. Lead styphnate	246-356-2
18. 2,2'-dichloro-4,4'-methylenedianiline	202-918-9
Zirconia Aluminosilicate Refractory Ceramic Fibres are fibres Covered by index number	650-017-00-8*

*in Annex VI, part3, 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:

- oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges.
- fibres have a length weighted geometric mean diameterless two standard geometric errors of 6 or less micrometres (μm).
- alkaline oxide and alkali earth oxide ($\text{Na}_2\text{O}+\text{K}_2\text{O}+\text{CaO}+\text{MgO}+\text{BaO}$) content less or equal to 18% by weight.

19. Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number	650-017-00-8*
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*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 and fulfil the three following conditions:

- oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges.
- fibres have a length weighted geometric mean diameterless two standard geometric errors of 6 or less micrometres (μm).
- alkaline oxide and alkali earth oxide ($\text{Na}_2\text{O}+\text{K}_2\text{O}+\text{CaO}+\text{MgO}+\text{BaO}$) content less or equal to 18% by weight.

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Effective: June 18th 2012

<u>Substance name</u>	<u>EC number</u>
1. 1,2-Bis(2-methoxyethoxy)ethan (TEGDME; triglyme)	203-977-3
2. 1,2-Dimethoxyethan; ethylen glycol dimethyl ether (EGDME)	203-794-9
3. Dibortrioxid	215-125-8
4. Formamid	200-842-0
5. Blei(II) bis(methansulfonat)	401-750-5
6. TGIC (1,3,5-Tris(oxiranylmethyl)-1,3,5-triazin-2,4,6(1H,3H,5H)-trion)	219-514-3
7. β -TGIC (1,3,5-Tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazin-2,4,6-(1H,3H,5H)-trion)	423-400-0
8. 4,4'-Bis(dimethylamino)benzophenon (Michler's Keton)	202-027-5
9. N,N,N',N'-Tetramethyl-4,4'-methyldianilin (Michler's Base)	202-959-2
10. 4-[[4-Anilino-1-naphthyl][4-(dimethylamino)phenyl]methylen]cyclohexa-2,5-dien-1-yliden] dimethylammoniumchlorid (C.I. Basic Blue 26) [with \geq 0.1% of Michler's keton (EC: 202-027-5) or Michler's base (EC: 202-959-2)]	219-943-6
11. [4-[4,4'-bis(dimethylamino) benzhydryliden]cyclohexa-2,5-dien-1-yliden] dimethylammonium chlorid (C.I. Basic Violet 3) [with \geq 0.1% of Michler's keton (EC: 202-027-5) or Michler's base (EC: 202-959-2)]	208-953-6
12. 4,4'-Bis(dimethylamino)-4''-(methylamino)tritylalkohol [with \geq 0.1% of Michler's keton (EC: 202-027-5) or Michler's base (EC: 202-959-2)]	209-218-2
13. α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalen-1-methanol (C.I. Solvent Blue 4)[with \geq 0.1% of Michler's keton (EC: 202-027-5) or Michler's base (EC: 202-959-2)]	229-851-8

Effective: Devenber 19th 2012

<u>Substance name</u>	<u>EC number</u>
1. Bis(pentabromphenyl) ether (decabromidphenyl) ether; DecaBDE)	214-604-9
2. Pentacosafuorotridecanoic acid	276-745-2
3. Tricosafuorododecanoic acid	206-203-2
4. Henicosafluorotetradecanoic acid	218-165-4
5. Heptacosafuorotetradecanoic acid	206-803-4
6. Diazene-1,2-dicarboxamine (C,C'-azodi (formamide))	204-650-8
7. Cyklohexane-1,2-dicarboxylic anhydride [1]	201-604-9
cis-cyklohexane-1,2dicarboxylic anhydride [2]	236-086-3
trans-cyklohexane-1,2-dicarboxylic anhydride [3]	238-009-9
[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].	
8. Hexahydromethylphthalic anhydride [1]	247-094-1
Hexahydro-4-methylphtalic anhydride [2]	243-072-0
Hexahydro-1-methylphtalic anhydride [3]	256-356-4
Hexahydro-3-methylphtalic anhydride [4]	260-566-1
[The individual isomers [2], [3], [4] (including their cis- and trans-stereo isometric forms) and all possible combinations of the isomers [1] are covered by tis entry].	

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Effective: December 19th 2012

<u>Substance name</u>	<u>EC number</u>
9. 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 UVBC- and well-defined substances which include any of the individual isomers or a combination there of]	-
10. 4-(1,1,3,3-tetramethylbutyl)phenol,ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues].	-
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. Silic acid, lead salt	234-363-3
21. Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped [with lead (Pb) content above the applicable generic conception limit for [toxicity for reproduction] Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]].	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. Diispentylphthalate (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 cyanamate	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

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Effective: Decemver 19th 2012

<u>Substance name</u>	<u>EC number</u>
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-o-toluidine	212-658-8
47. 4,4'-oxydianiline and it's salts	202-977-0
48. 4-aminoazobenzene	200-453-6
49. 4-methyl-m-phenylenediamine(toluene-2,4-diamine)	202-453-1
50. 6-methoxy-m-toluidine (p-cresidine)	204-419-1
51. Biphenyl-4-ylamine	202-177-1
52. o-aminoazotoluene[(4-o-tolylazo-o-toliidine)]	202-591-2
53. o-toluidine	202-429-0
54. N-methylacetamide	201-182-6

Effective: June 20th 2013

<u>Substance name</u>	<u>EC number</u>
1. Cadmium	231-152-8
2. Cadmiumoxid	215-146-2
3. Ammonium pentadecafluorooctanoat (APFO)	223-320-4
4. Pentadecafluorooctanoic acid (PFOA)	206-397-9
5. Dipentyl phthalat (DPP)	205-017-9
6. 4-Nonylphenol. Branched and linear, ethoxylated	-

Effective: December 16th 2013

<u>Substance name</u>	<u>EC number</u>
1. Cadmium sulphide	215-147-8
2. Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I.Direct Black 38)	217-710-3
3. Dihexyl phthalate	201-559-5
4. Imidazolidine-2-thione; (2-imidazoline-2-thiol)	202-506-9
5. Trixylyl phosphate	246-677-8
6. Disodium 3,3'-[1,1'-biphenyl]-4,4'-diylbis(azo)] bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	209-358-4
7. Lead di(acetate)	206-104-4

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Effective: June 16th 2014

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

Effective: December 17th 2014

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

Effective: June 15th 2015

<u>Substance name</u>	<u>EC number</u>
1. 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
2. 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].	-

Effective December 17th 2015

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

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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. 4,4'-isopropylidenediphenol (bisphenol A;BPA)	201-245-8
2. Nonadecafluorodecanoic acid (PFDA) and it's sodium and ammonium salts.	206-400-3 -
3. p-(1,1-dimethylpropyl)phenol	221-470-5 201-280-9
4. 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]	-

Effective: July 7th 2017

<u>Substance name</u>	<u>EC number</u>
Perfluorohexanesulfonic acid (PFHxS) and it's salts.	206-587-1

Effective: January 15th 2018

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

Effective: June 27th 2018

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

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