



Vieira de Leiria, 03<sup>rd</sup> September 2018.

## REACH COMPLIANCE STATEMENT

### To our Valued Customers:

We hereby inform you, in accordance with Article 33. of the REACH Regulation, that none of the 191 substances included, till this moment, in Candidate List of Substance of Very High Concern (SVHC), appended on the following page, are expected to be found in any article provided by Böllinghaus Steel, S.A., in a concentration above 0.1 % weight by weight (w/w).

We will continue to monitor the REACH regulation and advice of any changes.

Please do not hesitate to contact us in case of any upcoming doubts.

Your sincerely,

A handwritten signature in blue ink that reads "Nilza Neto".

Nilza Neto  
*Environmental Resp.*

## CANDIDATE LIST OF SUBSTANCE OF VERY HIGH CONCERN (SVHC)

UPDATED 2018/06/27

| SUBSTANCE NAME   | EC NUMBER | CAS NUMBER                | DATE OF INCLUSION | REASON FOR INCLUSION   |
|--|-----------|---------------------------|-------------------|--|
| Benzene-1,2,4-tricarboxylic acid 1,2 anhydride   | 209-008-0 | 552-30-7                  | 2018/06/27        | Respiratory sensitising properties (Article 57(f) - human health)  |
| Benzo[ghi]perylene   | 205-883-8 | 191-24-2                  | 2018/06/27        | PBT (Article 57d)<br>vPvB (Article 57e)  |
| Decamethylcyclopentasiloxane   | 208-764-9 | 541-02-6                  | 2018/06/27        | PBT (Article 57d)<br>vPvB (Article 57e)  |
| Dicyclohexyl phthalate   | 201-545-9 | 84-61-7                   | 2018/06/27        | Toxic for reproduction (Article 57c)<br>Endocrine disrupting properties (Article 57(f) - human health)   |
| Disodium octaborate  | 234-541-0 | 12008-41-2                | 2018/06/27        | Toxic for reproduction (Article 57c)   |
| Dodecamethylcyclohexasiloxane  | 208-762-8 | 540-97-6                  | 2018/06/27        | PBT (Article 57d)<br>vPvB (Article 57e)  |
| Ethylenediamine  | 203-468-6 | 107-15-3                  | 2018/06/27        | Respiratory sensitising properties (Article 57(f) - human health)  |
| Lead   | 231-100-4 | 7439-92-1                 | 2018/06/27        | Toxic for reproduction (Article 57c)   |
| Octamethylcyclotetrasiloxane   | 209-136-7 | 556-67-2                  | 2018/06/27        | PBT (Article 57d)<br>vPvB (Article 57e)  |
| Terphenyl, hydrogenated  | 262-967-7 | 61788-32-7                | 2018/06/27        | vPvB (Article 57e)   |
| 1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus" <sup>TM</sup> ) | -         | -                         | 2018/01/15        | vPvB (Article 57e)   |
| Benz[a]anthracene  | 200-280-6 | 56-55-3, 1718-53-2        | 2018/01/15        | Carcinogenic (Article 57a)<br>PBT (Article 57d)<br>vPvB (Article 57e)  |
| Cadmium carbonate  | 208-168-9 | 513-78-0                  | 2018/01/15        | Carcinogenic (Article 57a)<br>Mutagenic (Article 57b)<br>Specific target organ toxicity after repeated exposure (Article 57(f) - human health) |
| Cadmium hydroxide  | 244-168-5 | 21041-95-2                | 2018/01/15        | Carcinogenic (Article 57a)<br>Mutagenic (Article 57b)<br>Specific target organ toxicity after repeated exposure (Article 57(f) - human health) |
| Cadmium nitrate  | 233-710-6 | 10022-68-1,<br>10325-94-7 | 2018/01/15        | Carcinogenic (Article 57a)<br>Mutagenic (Article 57b)<br>Specific target organ toxicity after repeated exposure (Article 57(f) - human health) |
| Chrysene   | 205-923-4 | 218-01-9, 1719-03-5       | 2018/01/15        | Carcinogenic (Article 57a)<br>PBT (Article 57d)<br>vPvB (Article 57e)  |
| Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)                | -         | -                         | 2018/01/15        | Endocrine disrupting properties (Article 57(f) - environment)  |

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| Benzene-1,2,4-tricarboxylic acid 1,2 anhydride   | 209-008-0 | 552-30-7   | 2018/06/27        | Respiratory sensitising properties (Article 57(f) - human health)  |
| Benzo[ghi]perylene   | 205-883-8 | 191-24-2   | 2018/06/27        | PBT (Article 57d)<br>vPvB (Article 57e)  |
| Decamethylcyclopentasiloxane   | 208-764-9 | 541-02-6   | 2018/06/27        | PBT (Article 57d)<br>vPvB (Article 57e)  |
| Dicyclohexyl phthalate   | 201-545-9 | 84-61-7    | 2018/06/27        | Toxic for reproduction (Article 57c)<br>Endocrine disrupting properties (Article 57(f) - human health)                                     |
| Disodium octaborate  | 234-541-0 | 12008-41-2 | 2018/06/27        | Toxic for reproduction (Article 57c)   |
| Perfluorohexane-1-sulphonic acid and its salts PFHxS   | -         | -          | 2017/07/07        | vPvB (Article 57e)   |
| 4,4'-isopropylidenediphenol<br>Bisphenol A; BPA  | 201-245-8 | 80-05-7    | 2017/01/12        | Toxic for reproduction (Article 57c)<br>Endocrine disrupting properties (Article 57(f) - human health)                                     |
| 4-heptylphenol, branched and linear<br>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 | -         | -          | 2017/01/12        | Endocrine disrupting properties (Article 57(f) - environment)  |
| Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts<br>Nonadecafluorodecanoic acid EC no.: 206-400-3   CAS no.: 335-76-2  | -         | -          | 2017/01/12        | Toxic for reproduction (Article 57c)<br>PBT (Article 57 d)   |
| Decanoic acid, nonadecafluoro-, sodium salt EC no.: -   CAS no.: 3830-45-3   | -         | -          | 2017/01/12        | Toxic for reproduction (Article 57c)<br>PBT (Article 57 d)   |
| Ammonium nonadecafluorodecanoate EC no.:221-470-5   CAS no.: 3108-42-7   | -         | -          | 2017/01/12        | Toxic for reproduction (Article 57c)<br>PBT (Article 57 d)   |
| p-(1,1-dimethylpropyl)phenol   | 201-280-9 | 80-46-6    | 2017/01/12        | Endocrine disrupting properties (Article 57(f) - environment)  |
| Benzo[def]chrysene (Benzo[a]pyrene),<br>Benzo[def]chrysene(Benzo[a]pyrene)   | 200-028-5 | 50-32-8    | 2016/06/20        | Carcinogenic (Article 57a)<br>Mutagenic (Article 57b)<br>Toxic for reproduction (Article 57c)<br>PBT (Article 57 d)<br>vPvB (Article 57 e) |
| 1,3-propanesultone   | 214-317-9 | 1120-71-4  | 2015/12/17        | Carcinogenic (Article 57a)   |
| 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)  |
| 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)  |

| SUBSTANCE NAME   | EC NUMBER            | CAS NUMBER                | DATE OF INCLUSION        | REASON FOR INCLUSION   |
|--|----------------------|---------------------------|--------------------------|--|
| Nitrobenzene   | 202-716-0            | 98-95-3                   | 2015/12/17               | Toxic for reproduction (Article 57c)   |
| Perfluorononan-1-oic-acid and its sodium and ammonium salts  | -                    | -                         | 2015/12/17               | Toxic for reproduction (Article 57c)#PBT (Article 57 d)  |
| 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            | 68515-51-5                | 2015/06/15               | Toxic for reproduction (Article 57 c)  |
|  | 272-013-1            | 68648-93-1                |                          |  |
| 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]                    | -                    | -                         | 2015/06/15               | vPvB (Article 57e)   |
| Bis(2-ethylhexyl) phthalate (DEHP)   | 204-211-0            | 117-81-7                  | 2014/12/17<br>2008/10/28 | Equivalent level of concern having probable serious effects to the environment (Article 57 f); Toxic for reproduction (article 57c)  |
| 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)  |
| 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)  |
| 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)  |
| 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)  |
| 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) |
| Cadmium sulphate   | 233-331-6            | 10124-36-4,<br>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) |
| 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear   | 271-093-5            | 68515-50-4                | 2014/06/16               | Toxic for reproduction (Article 57 c)  |
| Sodium perborate; perboric acid, sodium salt   | 239-172-9; 234-390-0 | -                         | 2014/06/16               | Toxic for reproduction (Article 57 c)  |
| Sodium peroxometaborate  | 231-556-4            | 04-04-7632                | 2014/06/16               | Toxic for reproduction (Article 57 c)  |
| Cadmium chloride   | 233-296-7            | 10108-64-2                | 2014/06/16               | 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) |
| 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)   |

| SUBSTANCE NAME  | EC NUMBER  | CAS NUMBER   | DATE OF INCLUSION | REASON FOR INCLUSION   |
|---|--|--|-------------------|--|
| Trixylyl phosphate  | 246-677-8  | 25155-23-1   | 2013/12/16        | Toxic for reproduction (Article 57 c)  |
| 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)   |
| Imidazolidine-2-thione; (2-imidazoline-2-thiol)   | 202-506-9  | 96-45-7  | 2013/12/16        | Toxic for reproduction (Article 57 c)  |
| Lead di(acetate)  | 206-104-4  | 301-04-2   | 2013/12/16        | Toxic for reproduction (Article 57 c)  |
| Dihexyl phthalate   | 201-559-5  | 84-75-3  | 2013/12/16        | Toxic for reproduction (Article 57 c)  |
| 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)   |
| 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) |
| Ammonium pentadecafluorooctanoate (APFO)  | 223-320-4  | 3825-26-1  | 2013/06/20        | Toxic for reproduction (Article 57 c); PBT (Article 57 d)  |
| Pentadecafluorooctanoic acid (PFOA)   | 206-397-9  | 335-67-1   | 2013/06/20        | Toxic for reproduction (Article 57 c); PBT (Article 57 d)  |
| Dipentyl phthalate (DPP)  | 205-017-9  | 131-18-0   | 2013/06/20        | Toxic for reproduction (Article 57 c);   |
| 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] |  |  | 2013/06/20        | Equivalent level of concern having probable serious effects to the environment (Article 57 f)                          |
| 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) |
| Pyrochlore, antimony lead yellow  | 232-382-1  | 8012-00-8  | 2012/12/19        | Toxic for reproduction (Article 57 c)  |
| 6-methoxy-m-toluidine (p-cresidine)   | 204-419-1  | 120-71-8   | 2012/12/19        | Carcinogenic (article 57a)   |
| Henicosaflluoroundecanoic acid  | 218-165-4  | 2058-94-8  | 2012/12/19        | Vpvb (Article 57 e)  |
| Hexahydromethylphthalic anhydride [1],<br>Hexahydro-4-methylphthalic anhydride [2]<br>Hexahydro-1-methylphthalic anhydride [3]<br>Hexahydro-3-methylphthalic anhydride [4]  | 247-094-1<br>243-072-0<br>256-356-4<br>260-566-1 | 25550-51-0<br>19438-60-9<br>48122-14-1<br>57110-29-9 | 2012/12/19        | Equivalent level of concern having probable serious effects to human health (Article 57 f)                             |
| Cyclohexane-1,2-dicarboxylic anhydride [1]<br>Cis-cyclohexane-1,2-dicarboxylic anhydride [2]<br>Trans-cyclohexane-1,2-dicarboxylic anhydride [3]  | 201-604-9<br>236-086-3<br>238-009-9              | 85-42-7<br>13149-00-3<br>14166-21-3                  | 2012/12/19        | Equivalent level of concern having probable serious effects to human health (Article 57 f)                             |
| Dibutyltin dichloride (DBTC)  | 211-670-0  | 683-18-1   | 2012/12/19        | Toxic for reproduction (Article 57 c)  |
| Lead bis(tetrafluoroborate)   | 237-486-0  | 13814-96-5   | 2012/12/19        | Toxic for reproduction (Article 57 c)  |
| Lead dinitrate  | 233-245-9  | 10099-74-8   | 2012/12/19        | Toxic for reproduction (Article 57 c)  |
| Silicic acid, lead salt   | 234-363-3  | 11120-22-2   | 2012/12/19        | Toxic for reproduction (Article 57 c)  |
| 4-aminoazobenzene   | 200-453-6  | 60-09-3  | 2012/12/19        | Carcinogenic (article 57a)   |
| Lead titanium zirconium oxide   | 235-727-4  | 12626-81-2   | 2012/12/19        | Toxic for reproduction (Article 57 c)  |

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|--|-----------|-------------|-------------------|---|
| Lead monoxide (lead oxide)                                     | 215-267-0 | 1317-36-8   | 2012/12/19        | Toxic for reproduction (Article 57 c)   |
| O-toluidine  | 202-429-0 | 95-53-4     | 2012/12/19        | Carcinogenic (article 57a)  |
| 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)   |
| Silicic acid   | 272-271-5 | 68784-75-8  | 2012/12/19        | Toxic for reproduction (Article 57 c)   |
| Trilead bis(carbonate)dihydroxide                              | 215-290-6 | 1319-46-6   | 2012/12/19        | Toxic for reproduction (Article 57 c)   |
| Furan  | 203-727-3 | 110-00-9    | 2012/12/19        | Carcinogenic (Article 57a)  |
| N,N-dimethylformamide  | 200-679-5 | 68-12-2     | 2012/12/19        | Toxic for reproduction (Article 57 c)   |
| 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated                | -         | -           | 2012/12/19        | Equivalent level of concern having probable serious effects to the environment (Article 57 f) |
| 4-Nonylphenol, branched and linear                             | -         | -           | 2012/12/19        | Equivalent level of concern having probable serious effects to the environment (Article 57 f) |
| 4,4'-methylenedi-o-toluidine                                   | 212-658-8 | 838-88-0    | 2012/12/19        | Carcinogenic (article 57a)  |
| Diethyl sulphate   | 200-589-6 | 64-67-5     | 2012/12/19        | Carcinogenic (Article 57a); Mutagenic (Article 57b)   |
| Dimethyl sulphate  | 201-058-1 | 77-78-1     | 2012/12/19        | Carcinogenic (Article 57a)  |
| Lead oxide sulfate   | 234-853-7 | 12036-76-9  | 2012/12/19        | Toxic for reproduction (Article 57 c)   |
| Lead titanium trioxide   | 235-038-9 | 12060-00-3  | 2012/12/19        | Toxic for reproduction (Article 57 c)   |
| Acetic acid, lead salt, basic                                  | 257-175-3 | 51404-69-4  | 2012/12/19        | Toxic for reproduction (Article 57 c)   |
| [Phthalato(2-)]dioxotrilead                                    | 273-688-5 | 69011-06-9  | 2012/12/19        | Toxic for reproduction (Article 57 c)   |
| Bis(pentabromophenyl) ether (decabromodiphenyl ether; decabde) | 214-604-9 | 1163-19-5   | 2012/12/19        | PBT (Article 57 d); vpvb (Article 57 e)   |
| N-methylacetamide  | 201-182-6 | 79-16-3     | 2012/12/19        | Toxic for reproduction (Article 57 c)   |
| Dinoseb (6-sec-butyl-2,4-dinitrophenol)                        | 201-861-7 | 88-85-7     | 2012/12/19        | Toxic for reproduction (Article 57 c)   |
| 1,2-diethoxyethane   | 211-076-1 | 629-14-1    | 2012/12/19        | Toxic for reproduction (article 57 c)   |
| Tetralead trioxide sulphate                                    | 235-380-9 | 12202-17-4  | 2012/12/19        | Toxic for reproduction (Article 57 c)   |
| N-pentyl-isopentylphthalate                                    | -         | 776297-69-9 | 2012/12/19        | Toxic for reproduction (Article 57 c)   |
| Dioxobis(stearato)trilead                                      | 235-702-8 | 12578-12-0  | 2012/12/19        | Toxic for reproduction (Article 57 c)   |
| Tetraethyllead   | 201-075-4 | 78-00-2     | 2012/12/19        | Toxic for reproduction (Article 57 c)   |
| Pentalead tetraoxide sulphate                                  | 235-067-7 | 12065-90-6  | 2012/12/19        | Toxic for reproduction (Article 57 c)   |
| Pentacosafuorotridecanoic acid                                 | 276-745-2 | 72629-94-8  | 2012/12/19        | Vpvb (Article 57 e)   |
| Tricosafuorododecanoic acid                                    | 206-203-2 | 307-55-1    | 2012/12/19        | Vpvb (Article 57 e)   |
| Heptacosafuorotetradecanoic acid                               | 206-803-4 | 376-06-7    | 2012/12/19        | Vpvb (Article 57 e)   |
| 1-bromopropane (n-propyl bromide)                              | 203-445-0 | 106-94-5    | 2012/12/19        | Toxic for reproduction (article 57 c)   |
| Methoxyacetic acid   | 210-894-6 | 625-45-6    | 2012/12/19        | Toxic for reproduction (Article 57 c)   |
| 4-methyl-m-phenylenediamine (toluene-2,4-diamine)              | 202-453-1 | 95-80-7     | 2012/12/19        | Carcinogenic (article 57a)  |



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|--|-----------|------------|-------------------|---|
| Methyloxirane (Propylene oxide)  | 200-879-2 | 75-56-9    | 2012/12/19        | Carcinogenic (Article 57a);<br>Mutagenic (Article 57b)  |
| Trilead dioxide phosphonate  | 235-252-2 | 12141-20-7 | 2012/12/19        | Toxic for reproduction<br>(Article 57 c)  |
| O-aminoazotoluene  | 202-591-2 | 97-56-3    | 2012/12/19        | Carcinogenic (article 57a)  |
| 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear   | 284-032-2 | 84777-06-0 | 2012/12/19        | Toxic for reproduction<br>(Article 57 c)  |
| 4,4'-oxydianiline and its salts  | 202-977-0 | 101-80-4   | 2012/12/19        | Carcinogenic (article 57a);<br>mutagenic (article 57b)  |
| Orange lead (lead tetroxide)   | 215-235-6 | 1314-41-6  | 2012/12/19        | Toxic for reproduction<br>(Article 57 c)  |
| Biphenyl-4-ylamine   | 202-177-1 | 92-67-1    | 2012/12/19        | Carcinogenic (Article 57a)  |
| Diisopentylphthalate   | 210-088-4 | 605-50-5   | 2012/12/19        | Toxic for reproduction<br>(Article 57 c)  |
| Fatty acids, C16-18, lead salts  | 292-966-7 | 91031-62-8 | 2012/12/19        | Toxic for reproduction<br>(Article 57 c)  |
| Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))  | 204-650-8 | 123-77-3   | 2012/12/19        | Equivalent level of concern<br>having probable serious<br>effects to human health<br>(Article 57 f) |
| Sulfurous acid, lead salt, dibasic   | 263-467-1 | 62229-08-7 | 2012/12/19        | Toxic for reproduction<br>(Article 57 c)  |
| Lead cyanamidate   | 244-073-9 | 20837-86-9 | 2012/12/19        | Toxic for reproduction<br>(Article 57 c)  |
| $\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4<br>(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue<br>4) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or<br>Michler's base (EC No. 202-959-2)]                                     | 229-851-8 | 6786-83-0  | 2012/06/18        | Carcinogenic (Article 57a)  |
| N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's<br>base)  | 202-959-2 | 101-61-1   | 2012/06/18        | Carcinogenic (Article 57a)  |
| 1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-<br>(1H,3H,5H)-trione ( $\beta$ -TGIC)  | 423-400-0 | 59653-74-6 | 2012/06/18        | Mutagenic (Article 57b)   |
| Diboron trioxide   | 215-125-8 | 1303-86-2  | 2012/06/18        | Toxic for reproduction<br>(Article 57 c)  |
| 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)  | 203-977-3 | 112-49-2   | 2012/06/18        | Toxic for reproduction<br>(Article 57 c)  |
| 4,4'-bis(dimethylamino)-4''-(methylamino)trityl<br>alcohol [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5)<br>or Michler's base (EC No. 202-959-2)]  | 209-218-2 | 561-41-1   | 2012/06/18        | Carcinogenic (Article 57a)  |
| Lead(II) bis(methanesulfonate)   | 401-750-5 | 17570-76-2 | 2012/06/18        | Toxic for reproduction<br>(Article 57 c)  |
| Formamide  | 200-842-0 | 75-12-7    | 2012/06/18        | Toxic for reproduction<br>(Article 57 c)  |
| [4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-<br>dien-1-ylidene]dimethylammonium chloride (C.I. Basic<br>Violet 3) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-<br>5) or Michler's base (EC No. 202-959-2)]                    | 208-953-6 | 548-62-9   | 2012/06/18        | Carcinogenic (Article 57a)  |
| 1,2-dimethoxyethane; ethylene glycol dimethyl ether<br>(EGDME)   | 203-794-9 | 110-71-4   | 2012/06/18        | Toxic for reproduction<br>(Article 57 c)  |
| [4-[4-anilino-1-naphthyl][4-<br>(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-<br>ylidene] dimethylammonium chloride (C.I. Basic Blue<br>26) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or<br>Michler's base (EC No. 202-959-2)] | 219-943-6 | 2580-56-5  | 2012/06/18        | Carcinogenic (Article 57a)  |
| 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione<br>(TGIC)  | 219-514-3 | 2451-62-9  | 2012/06/18        | Mutagenic (Article 57b)   |
| 4,4'-bis(dimethylamino)benzophenone (Michler's ketone)   | 202-027-5 | 90-94-8    | 2012/06/18        | Carcinogenic (Article 57a)  |

| SUBSTANCE NAME  | EC NUMBER | CAS NUMBER          | DATE OF INCLUSION       | REASON FOR INCLUSION  |
|---|-----------|---------------------|-------------------------|---|
| Zirconia Aluminosilicate Refractory Ceramic Fibres                      |           |                     | 2011/12/19              | Carcinogenic (article 57 a)   |
| Calcium arsenate  | 231-904-5 | 7778-44-1           | 2011/12/19              | Carcinogenic (article 57 a)   |
| Bis(2-methoxyethyl) ether   | 203-924-4 | 111-96-6            | 2011/12/19              | Toxic for reproduction (article 57 c)   |
| Aluminosilicate Refractory Ceramic Fibres                               |           |                     | 2011/12/19              | Carcinogenic (article 57 a)   |
| Potassium hydroxyoctaoxidizincatedichromate                             | 234-329-8 | 11103-86-9          | 2011/12/19              | Carcinogenic (article 57 a)   |
| Lead dipicrate  | 229-335-2 | 6477-64-1           | 2011/12/19              | Toxic for reproduction (article 57 c)   |
| N,N-dimethylacetamide   | 204-826-4 | 127-19-5            | 2011/12/19              | Toxic for reproduction (article 57 c)   |
| Arsenic acid  | 231-901-9 | 7778-39-4           | 2011/12/19              | Carcinogenic (article 57 a)   |
| 2-Methoxyaniline; o-Anisidine   | 201-963-1 | 90-04-0             | 2011/12/19              | Carcinogenic (article 57 a)   |
| Trilead diarsenate  | 222-979-5 | 3687-31-8           | 2011/12/19              | Carcinogenic and toxic for reproduction (articles 57 a and 57 c)                              |
| 1,2-dichloroethane  | 203-458-1 | 107-06-2            | 2011/12/19              | Carcinogenic (article 57 a)   |
| Pentazinc chromate octahydroxide  | 256-418-0 | 49663-84-5          | 2011/12/19              | Carcinogenic (article 57 a)   |
| Formaldehyde, oligomeric reaction products with aniline                 | 500-036-1 | 25214-70-4          | 2011/12/19              | Carcinogenic (article 57 a)   |
| Bis(2-methoxyethyl) phthalate   | 204-212-6 | 117-82-8            | 2011/12/19              | Toxic for reproduction (article 57 c)   |
| 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) |
| Lead diazide, Lead azide  | 236-542-1 | 13424-46-9          | 2011/12/19              | Toxic for reproduction (article 57 c),  |
| Phenolphthalein   | 201-004-7 | 77-09-8             | 2011/12/19              | Carcinogenic (article 57 a)   |
| Dichromium tris(chromate)   | 246-356-2 | 24613-89-6          | 2011/12/19              | Carcinogenic (article 57 a)   |
| Lead styphnate  | 239-290-0 | 15245-44-0          | 2011/12/19              | Toxic for reproduction (article 57 c)   |
| 2,2'-dichloro-4,4'-methylenedianiline                                   | 202-918-9 | 101-14-4            | 2011/12/19              | Carcinogenic (article 57 a)   |
| 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)                              |
| 1,2,3-Trichloropropane  | 202-486-1 | 96-18-4             | 2011/06/20              | Carcinogenic and toxic for reproduction (articles 57 a and 57 c)                              |
| 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)  |
| 1-Methyl-2-pyrrolidone  | 212-828-1 | 872-50-4            | 2011/06/20              | Toxic for reproduction (article 57c)  |
| Hydrazine   | 206-114-9 | 302-01-2, 7803-57-8 | 2011/06/20              | Carcinogenic (article 57a)  |
| Strontium chromate  | 232-142-6 | 02-06-7789          | 2011/06/20              | Carcinogenic (article 57a)  |
| 2-Ethoxyethyl acetate   | 203-839-2 | 111-15-9            | 2011/06/20              | Toxic for reproduction (article 57c)  |
| 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)  |



| SUBSTANCE NAME   | EC NUMBER            | CAS NUMBER                            | DATE OF INCLUSION | REASON FOR INCLUSION  |
|--|----------------------|---------------------------------------|-------------------|---|
| Acids generated from chromium trioxide and their oligomers. Group containing: Chromic acid, Dichromic 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)  |
| Cobalt(II) carbonate   | 208-169-4            | 513-79-1                              | 2010/12/15        | Carcinogenic and toxic for reproduction (articles 57 a and 57 c)                  |
| Cobalt(II) diacetate   | 200-755-8            | 71-48-7                               | 2010/12/15        | Carcinogenic and toxic for reproduction (articles 57 a and 57 c)                  |
| 2-Methoxyethanol   | 203-713-7            | 109-86-4                              | 2010/12/15        | Toxic for reproduction (article 57c)  |
| Chromium trioxide  | 215-607-8            | 1333-82-0                             | 2010/12/15        | Carcinogenic and mutagenic (articles 57 a and 57 b)                               |
| Cobalt(II) dinitrate   | 233-402-1            | 10141-05-6                            | 2010/12/15        | Carcinogenic and toxic for reproduction (articles 57 a and 57 c)                  |
| Cobalt(II) sulphate  | 233-334-2            | 10124-43-3                            | 2010/12/15        | Carcinogenic and toxic for reproduction (articles 57 a and 57 c)                  |
| 2-Ethoxyethanol  | 203-804-1            | 110-80-5                              | 2010/12/15        | Toxic for reproduction (article 57c)  |
| Disodium tetraborate, anhydrous  | 215-540-4            | 1303-96-4, 1330-43-4, 12179-04-3      | 2010/06/18        | Toxic for reproduction (article 57 c)   |
| Ammonium dichromate  | 232-143-1            | 05-09-7789                            | 2010/06/18        | Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c) |
| Tetraboron disodium heptaoxide, hydrate  | 235-541-3            | 12267-73-1                            | 2010/06/18        | Toxic for reproduction (article 57 c)   |
| 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) |
| Trichloroethylene  | 201-167-4            | 79-01-6                               | 2010/06/18        | Carcinogenic (article 57 a)   |
| Potassium chromate   | 232-140-5            | 7789-00-6                             | 2010/06/18        | Carcinogenic and mutagenic (articles 57 a and 57 b).                              |
| Boric acid   | 233-139-2, 234-343-4 | 10043-35-3, 11113-50-1                | 2010/06/18        | Toxic for reproduction (article 57 c)   |
| Sodium chromate  | 231-889-5            | 03-11-7775                            | 2010/06/18        | Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c) |
| Acrylamide   | 201-173-7            | 79-06-1                               | 2010/03/21        | Carcinogenic and mutagenic (articles 57 a and 57 b)                               |
| Zirconia Aluminosilicate Refractory Ceramic Fibres   | -                    | Extracted from Index no. 650-017-00-8 | 2010/01/13        | Carcinogenic (article 57a)  |
| Lead chromate molybdate sulphate red   | 235-759-9            | 12656-85-8                            | 2010/01/13        | Carcinogenic and toxic for reproduction (articles 57 a and 57 c)                  |
| 2,4-Dinitrotoluene   | 204-450-0            | 121-14-2                              | 2010/01/13        | Carcinogenic (article 57a)  |
| Anthracene oil, anthracene-low   | 292-604-8            | 90640-82-7                            | 2010/01/13        | Carcinogenic, mutagenic, PBT and vPvB (articles 57a, 57b, 57d and 57e)            |
| Lead chromate  | 231-846-0            | 7758-97-6                             | 2010/01/13        | Carcinogenic and toxic for reproduction (articles 57 a and 57 c)                  |
| Tris(2-chloroethyl)phosphate   | 204-118-5            | 115-96-8                              | 2010/01/13        | Toxic for reproduction (article 57c)  |
| Anthracene oil, anthracene paste, anthracene fraction  | 295-275-9            | 91995-15-2                            | 2010/01/13        | Carcinogenic mutagenic, PBT and vPvB (articles 57a, 57b, 57d and 57e)             |

| SUBSTANCE NAME   | EC NUMBER               | CAS NUMBER  | DATE OF INCLUSION | REASON FOR INCLUSION   |
|--|-------------------------|---|-------------------|--|
| Anthracene oil   | 292-602-7               | 90640-80-5  | 2010/01/13        | Carcinogenic, PBT and vPvB (articles 57a, 57d and 57e)                         |
| Pitch, coal tar, high temp.  | 266-028-2               | 65996-93-2  | 2010/01/13        | Carcinogenic, PBT and vPvB (articles 57a, 57d and 57e)                         |
| 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)               |
| Anthracene oil, anthracene paste, distn. lights                          | 295-278-5               | 91995-17-4  | 2010/01/13        | Carcinogenic, mutagenic, PBT and vPvB (articles 57a, 57b, 57d and 57e)         |
| Aluminosilicate Refractory Ceramic Fibres                                | -                       | Extracted from Index no.: 650-017-00-8                          | 2010/01/13        | Carcinogenic (article 57a)   |
| Diisobutyl phthalate   | 201-553-2               | 84-69-5   | 13-01-2010        | Toxic for reproduction (article 57c)   |
| Anthracene oil, anthracene paste   | 292-603-2               | 90640-81-6  | 2010/01/13        | Carcinogenic, mutagenic, PBT and vPvB (articles 57a, 57b, 57d and 57e)         |
| 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) |
| 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)                       | 201-329-4               | 81-15-2   | 2008/10/28        | vPvB (article 57e)   |
| 4,4'- Diaminodiphenylmethane (MDA)                                       | 202-974-4               | 101-77-9  | 2008/10/28        | Carcinogenic (article 57a)   |
| Bis(tributyltin)oxide (TBTO)   | 200-268-0               | 56-35-9   | 2008/10/28        | PBT (article 57d)  |
| Triethyl arsenate  | 427-700-2               | 15606-95-8  | 2008/10/28        | Carcinogenic (article 57a)   |
| Dibutyl phthalate (DBP)  | 201-557-4               | 84-74-2   | 2008/10/28        | Toxic for reproduction (article 57c)   |
| Diarsenic trioxide   | 215-481-4               | 1327-53-3   | 2008/10/28        | Carcinogenic (article 57a)   |
| Anthracene   | 204-371-1               | 120-12-7  | 2008/10/28        | PBT (article 57d)  |
| Alkanes, C10-13, chloro  | 287-476-5               | 85535-84-8  | 2008/10/28        | PBT and vPvB (articles 57 d and 57 e)  |
| Lead hydrogen arsenate   | 232-064-2               | 7784-40-9   | 2008/10/28        | Carcinogenic and toxic for reproduction (articles 57 a and 57 c)               |
| Benzyl butyl phthalate (BBP)   | 201-622-7               | 85-68-7   | 2008/10/28        | Toxic for reproduction (article 57c)   |
| Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified | 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)  |
| Diarsenic pentaoxide   | 215-116-9               | 1303-28-2   | 2008/10/28        | Carcinogenic (article 57a)   |
| Bis (2-ethylhexyl)phthalate (DEHP)                                       | 204-211-0               | 117-81-7  | 2008/10/28        | Toxic for reproduction (article 57c)   |