





| Item | Restricted Substance  | EC No                  | CAS No                               | MCV Threshold      | Effective Date |
|------|---|------------------------|--------------------------------------|--------------------|----------------|
|      |   |                        | 10588-01-9                           |                    |                |
| 13   | Triethyl arsenate   | 427-700-2              | 15606-95-8                           | 1000 ppm (0.1% wt) | 10/28/2008     |
| 14   | 2,4-Dinitrotoluene  | 204-450-0              | 121-14-2                             | 1000 ppm (0.1% wt) | 1/13/2010      |
| 15   | Anthracene oil  | 292-602-7              | 90640-80-5                           | 1000 ppm (0.1% wt) | 1/13/2010      |
| 16   | Anthracene oil, anthracene paste  | 292-603-2              | 90640-81-6                           | 1000 ppm (0.1% wt) | 1/13/2010      |
| 17   | Anthracene oil, anthracene paste, anthracene fraction   | 295-275-9              | 91995-15-2                           | 1000 ppm (0.1% wt) | 1/13/2010      |
| 18   | Anthracene oil, anthracene paste, distn. lights   | 295-278-5              | 91995-17-4                           | 1000 ppm (0.1% wt) | 1/13/2010      |
| 19   | Anthracene oil, anthracene-low  | 292-604-8              | 90640-82-7                           | 1000 ppm (0.1% wt) | 1/13/2010      |
| 20   | Diisobutyl phthalate  | 201-553-2              | 84-69-5                              | 1000 ppm (0.1% wt) | 1/13/2010      |
| 21   | Lead chromate   | 231-846-0              | 7758-97-6                            | 1000 ppm (0.1% wt) | 1/13/2010      |
| 22   | Lead chromate molybdate sulphate red (C.I. Pigment Red 104)   | 235-759-9              | 12656-85-8                           | 1000 ppm (0.1% wt) | 1/13/2010      |
| 23   | Lead sulfochromate yellow (C.I. Pigment Yellow 34)  | 215-693-7              | 1344-37-2                            | 1000 ppm (0.1% wt) | 1/13/2010      |
| 24   | Pitch, coal tar, high temp.   | 266-028-2              | 65996-93-2                           | 1000 ppm (0.1% wt) | 1/13/2010      |
| 25   | Tris(2-chloroethyl)phosphate  | 204-118-5              | 115-96-8                             | 1000 ppm (0.1% wt) | 1/13/2010      |
| 26   | Acrylamide  | 201-173-7              | 79-06-1                              | 1000 ppm (0.1% wt) | 3/30/2010      |
| 27   | Ammonium dichromate   | 232-143-1              | 7789-09-5                            | 1000 ppm (0.1% wt) | 6/18/2010      |
| 28   | Boric acid  | 233-139-2<br>234-343-4 | 10043-35-3<br>11113-50-1             | 1000 ppm (0.1% wt) | 6/18/2010      |
| 29   | Disodium tetraborate, anhydrous   | 215-540-4              | 1303-96-4<br>1330-43-4<br>12179-04-3 | 1000 ppm (0.1% wt) | 6/18/2010      |
| 30   | Potassium chromate  | 232-140-5              | 7789-00-6                            | 1000 ppm (0.1% wt) | 6/18/2010      |
| 31   | Potassium dichromate  | 231-906-6              | 7778-50-9                            | 1000 ppm (0.1% wt) | 6/18/2010      |
| 32   | Sodium chromate   | 231-889-5              | 7775-11-3                            | 1000 ppm (0.1% wt) | 6/18/2010      |
| 33   | Tetraboron disodium heptaoxide, hydrate   | 235-541-3              | 12267-73-1                           | 1000 ppm (0.1% wt) | 6/18/2010      |
| 34   | Trichloroethylene   | 201-167-4              | 79-01-6                              | 1000 ppm (0.1% wt) | 6/18/2010      |
| 35   | 2-Ethoxyethanol   | 203-804-1              | 110-80-5                             | 1000 ppm (0.1% wt) | 12/15/2010     |
| 36   | 2-Methoxyethanol  | 203-713-7              | 109-86-4                             | 1000 ppm (0.1% wt) | 12/15/2010     |
| 37   | 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<br>236-881-5 | 7738-94-5<br>13530-68-2              | 1000 ppm (0.1% wt) | 12/15/2010     |
| 38   | Chromium trioxide   | 215-607-8              | 1333-82-0                            | 1000 ppm (0.1% wt) | 12/15/2010     |



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| 39   | Cobalt(II) carbonate  | 208-169-4 | 513-79-1              | 1000 ppm (0.1% wt) | 12/15/2010     |
| 40   | Cobalt(II) diacetate  | 200-755-8 | 71-48-7               | 1000 ppm (0.1% wt) | 12/15/2010     |
| 41   | Cobalt(II) dinitrate  | 233-402-1 | 10141-05-6            | 1000 ppm (0.1% wt) | 12/15/2010     |
| 42   | Cobalt(II) sulphate   | 233-334-2 | 10124-43-3            | 1000 ppm (0.1% wt) | 12/15/2010     |
| 43   | 1,2,3-trichloropropane  | 202-486-1 | 96-18-4               | 1000 ppm (0.1% wt) | 6/20/2011      |
| 44   | 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich  | 276-158-1 | 71888-89-6            | 1000 ppm (0.1% wt) | 6/20/2011      |
| 45   | 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters   | 271-084-6 | 68515-42-4            | 1000 ppm (0.1% wt) | 6/20/2011      |
| 46   | 1-Methyl-2-pyrrolidone (NMP)  | 212-828-1 | 872-50-4              | 1000 ppm (0.1% wt) | 6/20/2011      |
| 47   | 2-Ethoxyethyl acetate   | 203-839-2 | 111-15-9              | 1000 ppm (0.1% wt) | 6/20/2011      |
| 48   | Hydrazine   | 206-114-9 | 302-01-2<br>7803-57-8 | 1000 ppm (0.1% wt) | 6/20/2011      |
| 49   | Strontium chromate  | 232-142-6 | 7789-06-2             | 1000 ppm (0.1% wt) | 6/20/2011      |
| 50   | Cobalt dichloride   | 231-589-4 | 7646-79-9             | 1000 ppm (0.1% wt) | 6/20/2011      |
| 51   | 1,2-Dichloroethane  | 203-458-1 | 107-06-2              | 1000 ppm (0.1% wt) | 12/19/2011     |
| 52   | 2,2'-dichloro-4,4'-methylenedianiline   | 202-918-9 | 101-14-4              | 1000 ppm (0.1% wt) | 12/19/2011     |
| 53   | 2-Methoxyaniline,o-Anisidine  | 201-963-1 | 90-04-0               | 1000 ppm (0.1% wt) | 12/19/2011     |
| 54   | 4-(1,1,3,3-tetramethylbutyl)phenol  | 205-426-2 | 140-66-9              | 1000 ppm (0.1% wt) | 12/19/2011     |
| 55   | 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 <sub>2</sub> O+K <sub>2</sub> O+CaO+MgO+BaO) content less or equal to 18% by weight | -         | -                     | 1000 ppm (0.1% wt) | 12/19/2011     |
| 56   | Arsenic acid  | 231-901-9 | 7778-39-4             | 1000 ppm (0.1% wt) | 12/19/2011     |
| 57   | Bis(2-methoxyethyl) ether   | 203-924-4 | 111-96-6              | 1000 ppm (0.1% wt) | 12/19/2011     |



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| 58   | Bis(2-methoxyethyl) phthalate  | 204-212-6 | 117-82-8   | 1000 ppm (0.1% wt) | 12/19/2011     |
| 59   | Calcium arsenate   | 231-904-5 | 7778-44-1  | 1000 ppm (0.1% wt) | 12/19/2011     |
| 60   | Dichromium tris(chromate)  | 246-356-2 | 24613-89-6 | 1000 ppm (0.1% wt) | 12/19/2011     |
| 61   | Formaldehyde, oligomeric reaction products with aniline  | 500-036-1 | 25214-70-4 | 1000 ppm (0.1% wt) | 12/19/2011     |
| 62   | Lead diazide, Lead azide   | 236-542-1 | 13424-46-9 | 1000 ppm (0.1% wt) | 12/19/2011     |
| 63   | Lead dipicrate   | 229-335-2 | 6477-64-1  | 1000 ppm (0.1% wt) | 12/19/2011     |
| 64   | Lead styphnate   | 239-290-0 | 15245-44-0 | 1000 ppm (0.1% wt) | 12/19/2011     |
| 65   | N,N-dimethylacetamide  | 204-826-4 | 127-19-5   | 1000 ppm (0.1% wt) | 12/19/2011     |
| 66   | Pentazinc chromate octahydroxide   | 256-418-0 | 49663-84-5 | 1000 ppm (0.1% wt) | 12/19/2011     |
| 67   | Phenolphthalein  | 201-004-7 | 77-09-8    | 1000 ppm (0.1% wt) | 12/19/2011     |
| 68   | Potassium hydroxyoctaoxodizincatedichromate  | 234-329-8 | 11103-86-9 | 1000 ppm (0.1% wt) | 12/19/2011     |
| 69   | Trilead diarsenate   | 222-979-5 | 3687-31-8  | 1000 ppm (0.1% wt) | 12/19/2011     |
| 70   | 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 <sub>2</sub> O+K <sub>2</sub> O+CaO+MgO+BaO) content less or equal to 18% by weight | -         | -          | 1000 ppm (0.1% wt) | 12/19/2011     |
| 71   | 1,2-bis(2-methoxyethoxy)ethane (TEGDME, triglyme)  | 203-977-3 | 112-49-2   | 1000 ppm (0.1% wt) | 6/18/2012      |
| 72   | 1,2-dimethoxyethane, ethylene glycol dimethyl ether (EGDME)  | 203-794-9 | 110-71-4   | 1000 ppm (0.1% wt) | 6/18/2012      |
| 73   | 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)   | 219-514-3 | 2451-62-9  | 1000 ppm (0.1% wt) | 6/18/2012      |
| 74   | 1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-  | 423-400-0 | 59653-74-6 | 1000 ppm (0.1% wt) | 6/18/2012      |



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|      | (1H,3H,5H)-trione ( $\beta$ -TGIC)  |           |             |                    |                |
| 75   | 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    | 1000 ppm (0.1% wt) | 6/18/2012      |
| 76   | 4,4'-bis(dimethylamino)benzophenone (Michler's ketone)  | 202-027-5 | 90-94-8     | 1000 ppm (0.1% wt) | 6/18/2012      |
| 77   | [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    | 1000 ppm (0.1% wt) | 6/18/2012      |
| 78   | [4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylenecyclohexa-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   | 1000 ppm (0.1% wt) | 6/18/2012      |
| 79   | Diboron trioxide  | 215-125-8 | 1303-86-2   | 1000 ppm (0.1% wt) | 6/18/2012      |
| 80   | Formamide   | 200-842-0 | 75-12-7     | 1000 ppm (0.1% wt) | 6/18/2012      |
| 81   | Lead(II) bis(methanesulfonate)  | 401-750-5 | 17570-76-2  | 1000 ppm (0.1% wt) | 6/18/2012      |
| 82   | N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)  | 202-959-2 | 101-61-1    | 1000 ppm (0.1% wt) | 6/18/2012      |
| 83   | $\alpha,\alpha$ -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   | 1000 ppm (0.1% wt) | 6/18/2012      |
| 84   | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear  | 284-032-2 | 84777-06-0  | 1000 ppm (0.1% wt) | 12/19/2012     |
| 85   | 1,2-Diethoxyethane  | 211-076-1 | 629-14-1    | 1000 ppm (0.1% wt) | 12/19/2012     |
| 86   | 1-bromopropane (n-propyl bromide)   | 203-445-0 | 106-94-5    | 1000 ppm (0.1% wt) | 12/19/2012     |
| 87   | 3-ethyl-2-methyl-2-(3-methylbutyl)-   | 421-150-7 | 143860-04-2 | 1000 ppm (0.1% wt) | 12/19/2012     |



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|      | 1,3-oxazolidine   |                                     |                                     |                    |                |
| 88   | 4,4'-methylenedi-o-toluidine  | 212-658-8                           | 838-88-0                            | 1000 ppm (0.1% wt) | 12/19/2012     |
| 89   | 4,4'-oxydianiline and its salts   | 202-977-0                           | 101-80-4                            | 1000 ppm (0.1% wt) | 12/19/2012     |
| 90   | 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]   | -                                   | -                                   | 1000 ppm (0.1% wt) | 12/19/2012     |
| 91   | 4-Aminoazobenzene   | 200-453-6                           | 60-09-3                             | 1000 ppm (0.1% wt) | 12/19/2012     |
| 92   | 4-methyl-m-phenylenediamine (toluene-2,4-diamine)   | 202-453-1                           | 95-80-7                             | 1000 ppm (0.1% wt) | 12/19/2012     |
| 93   | 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]                | -                                   | -                                   | 1000 ppm (0.1% wt) | 12/19/2012     |
| 94   | 6-methoxy-m-toluidine (p-cresidine)   | 204-419-1                           | 120-71-8                            | 1000 ppm (0.1% wt) | 12/19/2012     |
| 95   | [Phthalato(2-)]dioxotrilead   | 273-688-5                           | 69011-06-9                          | 1000 ppm (0.1% wt) | 12/19/2012     |
| 96   | Acetic acid, lead salt, basic   | 257-175-3                           | 51404-69-4                          | 1000 ppm (0.1% wt) | 12/19/2012     |
| 97   | Biphenyl-4-ylamine  | 202-177-1                           | 92-67-1                             | 1000 ppm (0.1% wt) | 12/19/2012     |
| 98   | Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)   | 214-604-9                           | 1163-19-5                           | 1000 ppm (0.1% wt) | 12/19/2012     |
| 99   | 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<br>236-086-3<br>238-009-9 | 85-42-7<br>13149-00-3<br>14166-21-3 | 1000 ppm (0.1% wt) | 12/19/2012     |
| 100  | Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)  | 204-650-8                           | 123-77-3                            | 1000 ppm (0.1% wt) | 12/19/2012     |
| 101  | Dibutyltin dichloride (DBTC)  | 211-670-0                           | 683-18-1                            | 1000 ppm (0.1% wt) | 12/19/2012     |
| 102  | Diethyl sulphate  | 200-589-6                           | 64-67-5                             | 1000 ppm (0.1% wt) | 12/19/2012     |
| 103  | Diisopentylphthalate  | 210-088-4                           | 605-50-5                            | 1000 ppm (0.1% wt) | 12/19/2012     |
| 104  | Dimethyl sulphate   | 201-058-1                           | 77-78-1                             | 1000 ppm (0.1% wt) | 12/19/2012     |
| 105  | Dinoseb (6-sec-butyl-2,4-dinitrophenol)   | 201-861-7                           | 88-85-7                             | 1000 ppm (0.1% wt) | 12/19/2012     |
| 106  | Dioxobis(stearato)trilead   | 235-702-8                           | 12578-12-0                          | 1000 ppm (0.1% wt) | 12/19/2012     |



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| 107  | Fatty acids, C16-18, lead salts   | 292-966-7  | 91031-62-8   | 1000 ppm (0.1% wt) | 12/19/2012     |
| 108  | Furan   | 203-727-3  | 110-00-9   | 1000 ppm (0.1% wt) | 12/19/2012     |
| 109  | Henicosafuoroundecanoic acid  | 218-165-4  | 2058-94-8  | 1000 ppm (0.1% wt) | 12/19/2012     |
| 110  | Heptacosafuorotetradecanoic acid  | 206-803-4  | 376-06-7   | 1000 ppm (0.1% wt) | 12/19/2012     |
| 111  | 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<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 | 1000 ppm (0.1% wt) | 12/19/2012     |
| 112  | Lead bis(tetrafluoroborate)   | 237-486-0  | 13814-96-5   | 1000 ppm (0.1% wt) | 12/19/2012     |
| 113  | Lead cyanamidate  | 244-073-9  | 20837-86-9   | 1000 ppm (0.1% wt) | 12/19/2012     |
| 114  | Lead dinitrate  | 233-245-9  | 10099-74-8   | 1000 ppm (0.1% wt) | 12/19/2012     |
| 115  | Lead monoxide (lead oxide)  | 215-267-0  | 1317-36-8  | 1000 ppm (0.1% wt) | 12/19/2012     |
| 116  | Lead oxide sulfate  | 234-853-7  | 12036-76-9   | 1000 ppm (0.1% wt) | 12/19/2012     |
| 117  | Lead titanium trioxide  | 235-038-9  | 12060-00-3   | 1000 ppm (0.1% wt) | 12/19/2012     |
| 118  | Lead titanium zirconium oxide   | 235-727-4  | 12626-81-2   | 1000 ppm (0.1% wt) | 12/19/2012     |
| 119  | Methoxyacetic acid  | 210-894-6  | 625-45-6   | 1000 ppm (0.1% wt) | 12/19/2012     |
| 120  | Methyloxirane (Propylene oxide)   | 200-879-2  | 75-56-9  | 1000 ppm (0.1% wt) | 12/19/2012     |
| 121  | N,N-dimethylformamide   | 200-679-5  | 68-12-2  | 1000 ppm (0.1% wt) | 12/19/2012     |
| 122  | N-methylacetamide   | 201-182-6  | 79-16-3  | 1000 ppm (0.1% wt) | 12/19/2012     |
| 123  | N-pentyl-isopentylphthalate   |  | 776297-69-9  | 1000 ppm (0.1% wt) | 12/19/2012     |
| 124  | o-aminoazotoluene   | 202-591-2  | 97-56-3  | 1000 ppm (0.1% wt) | 12/19/2012     |
| 125  | o-Toluidine   | 202-429-0  | 95-53-4  | 1000 ppm (0.1% wt) | 12/19/2012     |
| 126  | Orange lead (lead tetroxide)  | 215-235-6  | 1314-41-6  | 1000 ppm (0.1% wt) | 12/19/2012     |
| 127  | Pentacosafuorotridecanoic acid  | 276-745-2  | 72629-94-8   | 1000 ppm (0.1% wt) | 12/19/2012     |
| 128  | Pentalead tetraoxide sulphate   | 235-067-7  | 12065-90-6   | 1000 ppm (0.1% wt) | 12/19/2012     |
| 129  | Pyrochlore, antimony lead yellow  | 232-382-1  | 8012-00-8  | 1000 ppm (0.1% wt) | 12/19/2012     |
| 130  | Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), 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 | 272-271-5  | 68784-75-8   | 1000 ppm (0.1% wt) | 12/19/2012     |



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|      | (EC) No 1272/2008]  |           |            |                    |                |
| 131  | Silicic acid, lead salt   | 234-363-3 | 11120-22-2 | 1000 ppm (0.1% wt) | 12/19/2012     |
| 132  | Sulfurous acid, lead salt, dibasic  | 263-467-1 | 62229-08-7 | 1000 ppm (0.1% wt) | 12/19/2012     |
| 133  | Tetraethyllead  | 201-075-4 | 78-00-2    | 1000 ppm (0.1% wt) | 12/19/2012     |
| 134  | Tetralead trioxide sulphate   | 235-380-9 | 12202-17-4 | 1000 ppm (0.1% wt) | 12/19/2012     |
| 135  | Tricosafuorododecanoic acid   | 206-203-2 | 307-55-1   | 1000 ppm (0.1% wt) | 12/19/2012     |
| 136  | Trilead bis(carbonate) dihydroxide  | 215-290-6 | 1319-46-6  | 1000 ppm (0.1% wt) | 12/19/2012     |
| 137  | Trilead dioxide phosphonate   | 235-252-2 | 12141-20-7 | 1000 ppm (0.1% wt) | 12/19/2012     |
| 138  | 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] | -         | -          | 1000 ppm (0.1% wt) | 6/20/2013      |
| 139  | Ammonium pentadecafluorooctanoate (APFO)  | 223-320-4 | 3825-26-1  | 1000 ppm (0.1% wt) | 6/20/2013      |
| 140  | Cadmium   | 231-152-8 | 7440-43-9  | 1000 ppm (0.1% wt) | 6/20/2013      |
| 141  | Cadmium oxide   | 215-146-2 | 1306-19-0  | 1000 ppm (0.1% wt) | 6/20/2013      |
| 142  | Dipentyl phthalate (DPP)  | 205-017-9 | 131-18-0   | 1000 ppm (0.1% wt) | 6/20/2013      |
| 143  | Pentadecafluorooctanoic acid (PFOA)   | 206-397-9 | 335-67-1   | 1000 ppm (0.1% wt) | 6/20/2013      |
| 144  | Cadmium sulphide  | 215-147-8 | 1306-23-6  | 1000 ppm (0.1% wt) | 12/16/2013     |
| 145  | Diethyl phthalate   | 201-559-5 | 84-75-3    | 1000 ppm (0.1% wt) | 12/16/2013     |
| 146  | 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   | 1000 ppm (0.1% wt) | 12/16/2013     |
| 147  | 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  | 1000 ppm (0.1% wt) | 12/16/2013     |
| 148  | Imidazolidine-2-thione (2-imidazoline-2-thiol)  | 202-506-9 | 96-45-7    | 1000 ppm (0.1% wt) | 12/16/2013     |
| 149  | Lead di(acetate)  | 206-104-4 | 301-04-2   | 1000 ppm (0.1% wt) | 12/16/2013     |
| 150  | Triethyl phosphate  | 246-677-8 | 25155-23-1 | 1000 ppm (0.1% wt) | 12/16/2013     |
| 151  | 1,2-Benzenedicarboxylic acid, dihexylester, branched and linear   | 271-093-5 | 68515-50-4 | 1000 ppm (0.1% wt) | 6/16/2014      |





| Item | Restricted Substance   | EC No                  | CAS No                   | MCV Threshold      | Effective Date |
|------|--|------------------------|--------------------------|--------------------|----------------|
| 152  | Cadmium chloride   | 233-296-7              | 10108-64-2               | 1000 ppm (0.1% wt) | 6/16/2014      |
| 153  | Sodium perborate, perboric acid, sodium salt   | 239-172-9<br>234-390-0 | -                        | 1000 ppm (0.1% wt) | 6/16/2014      |
| 154  | Sodium peroxometaborate  | 231-556-4              | 7632-04-4                | 1000 ppm (0.1% wt) | 6/16/2014      |
| 155  | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)   | 247-384-8              | 25973-55-1               | 1000 ppm (0.1% wt) | 12/17/2014     |
| 156  | 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)   | 223-346-6              | 3846-71-7                | 1000 ppm (0.1% wt) | 12/17/2014     |
| 157  | 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)   | 239-622-4              | 15571-58-1               | 1000 ppm (0.1% wt) | 12/17/2014     |
| 158  | Cadmium fluoride   | 232-222-0              | 7790-79-6                | 1000 ppm (0.1% wt) | 12/17/2014     |
| 159  | Cadmium sulphate   | 233-331-6              | 10124-36-4<br>31119-53-6 | 1000 ppm (0.1% wt) | 12/17/2014     |
| 160  | 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) | -                      | -                        | 1000 ppm (0.1% wt) | 12/17/2014     |
| 161  | Bis (2-ethylhexyl)phthalate (DEHP)   | 204-211-0              | 117-81-7                 | 1000 ppm (0.1% wt) | 12/17/2014     |
| 162  | 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate (EC No. 201-559-5)  | 271-094-0<br>272-013-1 | 68515-51-5<br>68648-93-1 | 1000 ppm (0.1% wt) | 6/15/2015      |
| 163  | 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]                    | -                      | -                        | 1000 ppm (0.1% wt) | 6/15/2015      |
| 164  | 1,3-propanesultone   | 214-317-9              | 1120-71-4                | 1000 ppm (0.1% wt) | 12/17/2015     |
| 165  | 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)   | 223-383-8              | 3864-99-1                | 1000 ppm (0.1% wt) | 12/17/2015     |
| 166  | 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)   | 253-037-1              | 36437-37-3               | 1000 ppm (0.1% wt) | 12/17/2015     |
| 167  | Nitrobenzene   | 202-716-0              | 98-95-3                  | 1000 ppm (0.1% wt) | 12/17/2015     |
| 168  | Perfluorononan-1-oi-c-acid and its   | 206-801-3              | 375-95-1,                | 1000 ppm (0.1% wt) | 12/17/2015     |



| Item | Restricted Substance  | EC No                       | CAS No                             | MCV Threshold      | Effective Date |
|------|---|-----------------------------|------------------------------------|--------------------|----------------|
|      | sodium and ammonium salts   |                             | 21049-39-8,<br>4149-60-4           |                    |                |
| 169  | Benzo[def]chrysene<br>(Benzo[a]pyrene)  | 200-028-5                   | 50-32-8                            | 1000 ppm (0.1% wt) | 6/20/2016      |
| 170  | 4,4'-isopropylidenediphenol   | 201-245-8                   | 80-05-7                            | 1000 ppm (0.1% wt) | 1/12/2017      |
| 171  | 4-Heptylphenol, branched and linear   | -                           | -                                  | 1000 ppm (0.1% wt) | 1/12/2017      |
| 172  | Nonadecafluorodecanoic acid<br>(PFDA) and its sodium and<br>ammonium salts -<br>Nonadecafluorodecanoic acid,<br>Ammonium<br>nonadecafluorodecanoate, Decanoic<br>acid, nonadecafluoro-, sodium salt       | 206-400-3<br>221-470-5<br>- | 335-76-2<br>3108-42-7<br>3830-45-3 | 1000 ppm (0.1% wt) | 1/12/2017      |
| 173  | p-(1,1-dimethylpropyl)phenol  | 201-280-9                   | 80-46-6                            | 1000 ppm (0.1% wt) | 1/12/2017      |
| 174  | Perfluorohexane-1-sulphonic acid<br>and its salts   | -                           | -                                  | 1000 ppm (0.1% wt) | 7/7/2017       |
| 175  | Benz[a]anthracene   | 200-280-6                   | 56-55-3,<br>1718-53-2              | 1000 ppm (0.1% wt) | 1/15/2018      |
| 176  | Cadmium carbonate   | 208-168-9                   | 513-78-0                           | 1000 ppm (0.1% wt) | 1/15/2018      |
| 177  | Cadmium hydroxide   | 244-168-5                   | 21041-95-2                         | 1000 ppm (0.1% wt) | 1/15/2018      |
| 178  | Cadmium nitrate   | 233-710-6                   | 10022-68-1,<br>10325-94-7          | 1000 ppm (0.1% wt) | 1/15/2018      |
| 179  | Chrysene  | 205-923-4                   | 218-01-9,<br>1719-03-5             | 1000 ppm (0.1% wt) | 1/15/2018      |
| 180  | Dodecachloropentacyclo[12.2.1.1.16,<br>9.02,13.05,10]octadeca-7,15-diene<br>("Dechlorane Plus™")<br>covering any of its individual anti-<br>and syn-isomers or any combination<br>thereof                 | -                           | -                                  | 1000 ppm (0.1% wt) | 1/15/2018      |
| 181  | Reaction products of 1,3,4-<br>thiadiazolidine-2,5-dithione,<br>formaldehyde and 4-<br>heptylphenol, branched and<br>linear (RP-HP)<br>with ≥0.1% w/w 4-<br>heptylphenol, branched and<br>linear (4-HPbl) | -                           | -                                  | 1000 ppm (0.1% wt) | 1/15/2018      |
| 182  | Benzene-1,2,4-tricarboxylic acid 1,2<br>anhydride trimellitic anhydride; TMA  | 209-008-0                   | 552-30-7                           | 1000 ppm (0.1% wt) | 6/27/2018      |
| 183  | Benzo[ghi]perylene  | 205-883-8                   | 191-24-2                           | 1000 ppm (0.1% wt) | 6/27/2018      |
| 184  | Decamethylcyclopentasiloxane  | 208-764-9                   | 541-02-6                           | 1000 ppm (0.1% wt) | 6/27/2018      |
| 185  | Dicyclohexyl phthalate DCHP   | 201-545-9                   | 84-61-7                            | 1000 ppm (0.1% wt) | 6/27/2018      |
| 186  | Disodium octaborate   | 234-541-0                   | 12008-41-2                         | 1000 ppm (0.1% wt) | 6/27/2018      |



| Item | Restricted Substance  | EC No     | CAS No                 | MCV Threshold      | Effective Date |
|------|---|-----------|------------------------|--------------------|----------------|
| 187  | Dodecamethylcyclotetrasiloxane  | 208-762-8 | 540-97-6               | 1000 ppm (0.1% wt) | 6/27/2018      |
| 188  | Ethylenediamine EDA   | 203-468-6 | 107-15-3               | 1000 ppm (0.1% wt) | 6/27/2018      |
| 189  | Lead  | 231-100-4 | 7439-92-1              | 1000 ppm (0.1% wt) | 6/27/2018      |
| 190  | Octamethylcyclotetrasiloxane  | 209-136-7 | 556-67-2               | 1000 ppm (0.1% wt) | 6/27/2018      |
| 191  | Terphenyl, hydrogenated   | 262-967-7 | 61788-32-7             | 1000 ppm (0.1% wt) | 6/27/2018      |
| 192  | 1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one   | 239-139-9 | 15087-24-8             | 1000 ppm (0.1% wt) | 1/15/2019      |
| 193  | 2,2-bis(4'-hydroxyphenyl)-4-methylpentane   | 401-720-1 | 6807-17-6              | 1000 ppm (0.1% wt) | 1/15/2019      |
| 194  | Benzo[k]fluoranthene  | 205-916-6 | 207-08-9               | 1000 ppm (0.1% wt) | 1/15/2019      |
| 195  | Fluoranthene  | 205-912-4 | 206-44-0,              | 1000 ppm (0.1% wt) | 1/15/2019      |
| 196  | Phenanthrene  | 201-581-5 | 206-44-0,              | 1000 ppm (0.1% wt) | 1/15/2019      |
| 197  | Pyrene  | 204-927-3 | 129-00-0,<br>1718-52-1 | 1000 ppm (0.1% wt) | 1/15/2019      |
| 198  | Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq$ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)                 | -         | -                      | 1000 ppm (0.1% wt) | 7/16/2019      |
| 199  | 4-tert-butylphenol  | 202-679-0 | 98-54-4                | 1000 ppm (0.1% wt) | 7/16/2019      |
| 200  | 2-methoxyethyl acetate  | 203-772-9 | 110-49-6               | 1000 ppm (0.1% wt) | 7/16/2019      |
| 201  | 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides  | -         | -                      | 1000 ppm (0.1% wt) | 7/16/2019      |
| 202  | Perfluorobutane sulfonic acid (PFBS) and its salts  | -         | -                      | 1000 ppm (0.1% wt) | 1/16/2020      |
| 203  | Diisohexyl phthalate  | 276-090-2 | 71850-09-4             | 1000 ppm (0.1% wt) | 1/16/2020      |
| 204  | 2-methyl-1-(4-methylphenyl)-2-morpholinopropan-1-one  | 400-600-6 | 71868-10-5             | 1000 ppm (0.1% wt) | 1/16/2020      |
| 205  | 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone   | 404-360-3 | 119313-12-1            | 1000 ppm (0.1% wt) | 1/16/2020      |
| 206  | 1-vinylimidazole  | 214-012-0 | 1072-63-5              | 1000 ppm (0.1% wt) | 6/26/2020      |
| 207  | 2-methylimidazole   | 211-765-7 | 693-98-1               | 1000 ppm (0.1% wt) | 6/26/2020      |
| 208  | Butyl 4-hydroxybenzoate   | 202-318-7 | 94-26-8                | 1000 ppm (0.1% wt) | 6/26/2020      |
| 209  | Dibutylbis(pentane-2,4-dionato-O,O')tin   | 245-152-0 | 22673-19-4             | 1000 ppm (0.1% wt) | 6/26/2020      |
| 210  | Bis(2-(2-methoxyethoxy)ethyl)ether  | 205-594-7 | 143-24-8               | 1000 ppm (0.1% wt) | 1/19/2021      |
| 211  | Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein | -         | -                      | 1000 ppm (0.1% wt) | 1/19/2021      |



| Item | Restricted Substance   | EC No   | CAS No   | MCV Threshold      | Effective Date |
|------|--|---|--|--------------------|----------------|
|      | C12 is the predominant carbon number of the fatty acyloxy moiety   |   |  |                    |                |
| 212  | 2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers   | -   | -  | 1000 ppm (0.1% wt) | 7/8/2021       |
| 213  | Orthoboric acid, sodium salt   | 237-560-2                                     | 13840-56-7   | 1000 ppm (0.1% wt) | 7/8/2021       |
| 214  | 2,2-bis(bromomethyl)propane1,3-diol (BMP);<br><br>2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA);<br><br>2,3-dibromo-1-propanol (2,3-DBPA)   | 221-967-7,<br><br>253-057-0,<br><br>202-480-9 | 3296-90-0,<br><br>36483-57-5,<br><br>1522-92-5,<br><br>96-13-9 | 1000 ppm (0.1% wt) | 7/8/2021       |
| 215  | Glutaral   | 203-856-5                                     | 111-30-8   | 1000 ppm (0.1% wt) | 7/8/2021       |
| 216  | Medium chain chlorinated paraffins (MCCP)<br><br>(UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17) | -   | -  | 1000 ppm (0.1% wt) | 7/8/2021       |
| 217  | Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)        | -   | -  | 1000 ppm (0.1% wt) | 7/8/2021       |
| 218  | 1,4-dioxane  | 204-661-8                                     | 123-91-1   | 1000 ppm (0.1% wt) | 7/8/2021       |
| 219  | 4,4'-(1-methylpropylidene)bisphenol  | 201-025-1                                     | 77-40-7  | 1000 ppm (0.1% wt) | 7/8/2021       |
| 220  | 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol   | 204-327-1                                     | 119-47-1   | 1000 ppm (0.1% wt) | 1/17/2022      |
| 221  | tris(2-methoxyethoxy)vinylsilane   | 213-934-0                                     | 1067-53-4  | 1000 ppm (0.1% wt) | 1/17/2022      |
| 222  | (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)                                     | -   | -  | 1000 ppm (0.1% wt) | 1/17/2022      |
| 223  | S-(tricyclo(5.2.1.0 <sup>2,6</sup> )deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate                            | 401-850-9                                     | 255881-94-8  | 1000 ppm (0.1% wt) | 1/17/2022      |
| 224  | N-(hydroxymethyl)acrylamide  | 213-103-2                                     | 924-42-5   | 1000 ppm (0.1% wt) | 6/10/2022      |
| 225  | 1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-   | 253-692-3                                     | 37853-59-1   | 1000 ppm (0.1% wt) | 1/17/2023      |



| Item | Restricted Substance  | EC No     | CAS No      | MCV Threshold      | Effective Date |
|------|---|-----------|-------------|--------------------|----------------|
|      | tribromobenzene]  |           |             |                    |                |
| 226  | 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol  | 201-236-9 | 79-94-7     | 1000 ppm (0.1% wt) | 1/17/2023      |
| 227  | 4,4'-sulphonyldiphenol  | 201-250-5 | 80-90-1     | 1000 ppm (0.1% wt) | 1/17/2023      |
| 228  | Barium diboron tetraoxide   | 237-222-4 | 13701-59-2  | 1000 ppm (0.1% wt) | 1/17/2023      |
| 229  | Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof  | -         | -           | 1000 ppm (0.1% wt) | 1/17/2023      |
| 230  | Isobutyl 4-hydroxybenzoate  | 224-208-8 | 4247-02-3   | 1000 ppm (0.1% wt) | 1/17/2023      |
| 231  | Melamine  | 203-615-4 | 108-78-1    | 1000 ppm (0.1% wt) | 1/17/2023      |
| 232  | Perfluoroheptanoic acid and its salts   | -         | -           | 1000 ppm (0.1% wt) | 1/17/2023      |
| 233  | reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine | 473-390-7 | -           | 1000 ppm (0.1% wt) | 1/17/2023      |
| 234  | Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide   | 278-355-8 | 75980-60-8  | 1000 ppm (0.1% wt) | 6/14/2023      |
| 235  | Bis(4-chlorophenyl) sulphone  | 201-247-9 | 80-07-9     | 1000 ppm (0.1% wt) | 6/14/2023      |
| 236  | Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol  | 700-960-7 | -           | 1000 ppm (0.1% wt) | 1/23/24        |
| 237  | Bumetrizole (UV-326)  | 223-445-4 | 3896-11-5   | 1000 ppm (0.1% wt) | 1/23/24        |
| 238  | 2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one  | 438-340-0 | 119344-86-4 | 1000 ppm (0.1% wt) | 1/23/24        |
| 239  | 2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)  | 221-573-5 | 3147-75-9   | 1000 ppm (0.1% wt) | 1/23/24        |
| 240  | 2,4,6-tri-tert-butylphenol  | 211-989-5 | 732-26-3    | 1000 ppm (0.1% wt) | 1/23/24        |

Signature: 

Date: 3/1/2024

George Kong, Director of Quality

