

## Certificate of Non-Use of Hazardous Substances

MaxLinear, Inc. certifies that as of the date of this Certificate of Non-Use of Hazardous Substances, the MaxLinear product listed below is certified as follows:

| Environmental Category & Description |   | Details for:<br><b>SPX3819M5-L-1-5/TR</b> |
|--------------------------------------|---|---|
| <b>RoHS   Exempt</b>                 | If "7a", "7c", or "15", then product contains lead but is compliant meeting the requirements of Directive (EU) 2011/65 pursuant to either exemption 7a, 7c, or 15. See Appendix A.  | N   |
| <b>RoHS</b>                          | If "Y", then product is RoHS compliant meeting the requirements of Directive (EU) 2015/863 with no exemptions taken. See Appendix B.  | Y   |
| <b>Halogen Free</b>                  | If "Y", then product is halogen and lead (Pb) free. Green products meet RoHS requirements plus additional hazardous material restrictions. See Appendix C.  | Y   |
| <b>REACH</b>                         | If "Y", then product does not use any Substances of Very High Concern (SVHC) under REACH requirements. See Appendix D for a list of these substances.<br>If "N", please see Appendix E for SVHC that is contained in this product | Y   |
| <b>TSCA</b>                          | If "Y", then product is compliant and does not use any of the Toxic Substance Control Act (TSCA) restricted substances. See Appendix F for a list of these substances.  | Y   |

MaxLinear, Inc.  
Quality and Reliability  
Mar 13, 2025

## Appendix A | RoHS with Exemption

| Exemption | Description   |
|-----------|---|
| 7a        | Lead in high melting temperature type solders   |
| 7c        | Electrical and electronic components containing lead in a glass or ceramic, e.g. piezoelectric devices, or in a glass or ceramic matrix compound. |
| 15        | Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages     |

## Appendix B | RoHS Directive (EU) 2015/863

| Restricted Substance                  | Allowable Limit (at homogenous material level) |
|---------------------------------------|--|
| Cadmium (Cd)                          | 100 ppm (0.01 weight %)                        |
| Mercury (Hg)                          | 1000 ppm (0.10 weight %)                       |
| Lead (Pb)                             | 1000 ppm (0.10 weight %)                       |
| Hexavalent Chromium (Cr6+)            | 1000 ppm (0.10 weight %)                       |
| Polybrominated biphenyls (PBB)        | 1000 ppm (0.10 weight %)                       |
| Polybrominated diphenyl ethers (PBDE) | 1000 ppm (0.10 weight %)                       |
| Bis (2-Ethylhexyl) phthalate (DEHP)   | 1000 ppm (0.10 weight %)                       |
| Benzyl butyl phthalate (BBP)          | 1000 ppm (0.10 weight %)                       |
| Dibutyl phthalate (DBP)               | 1000 ppm (0.10 weight %)                       |
| Diisobutyl phthalate (DIBP)           | 1000 ppm (0.10 weight %)                       |

## Appendix C | Halogen Free

| Restricted Substance                            | Allowable Limit |
|---|-----------------|
| Bromine (Br)                                    | 900 ppm         |
| Chlorine (Cl)                                   | 900 ppm         |
| Antimony (Sb (Sb <sub>2</sub> O <sub>3</sub> )) | 900 ppm         |
|   | 1500 ppm Total  |

## Appendix D | REACH 241 - Regulation (EC) No 1907/2006 (Threshold Limit 1000ppm (0.1% w/w))

|     | Date of Inclusion: June 27, 2024  | EC Number                                | CAS Number  |
|-----|---|--|---|
| 241 | Bis(a,a-dimethylbenzyl) peroxide  | 201-279-3                                | 80-43-3   |
|     | Date of Inclusion: January 23, 2024   | EC Number                                | CAS Number  |
| 240 | Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol  | 700-960-7                                | -   |
| 239 | Bumetizole (UV-326)   | 223-445-4                                | 3896-11-5   |
| 238 | 2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one  | 438-340-0                                | 119344-86-4                                       |
| 237 | 2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol   | 221-573-5                                | 3147-75-9   |
| 236 | 2,4,6-tri-tert-butylphenol  | 211-989-5                                | 732-26-3  |
|     | Date of Inclusion: June 14, 2023  | EC Number                                | CAS Number  |
| 235 | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide   | 278-355-8                                | 75980-60-8  |
| 234 | bis(4-chlorophenyl) sulphone  | 201-247-9                                | 80-07-9   |
|     | Date of Inclusion: January 17, 2023   | EC Number                                | CAS Number  |
| 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                                | -   |
| 232 | Perfluoroheptanoic acid and its salts<br>Ammonium perfluoroheptanoate<br>potassium perfluoroheptanoate<br>Perfluoroheptanoic acid<br>Sodium perfluoroheptanoate | 228-098-2<br>-<br>206-798-9<br>243-518-4 | 6130-43-4<br>21049-36-5<br>375-85-9<br>20109-59-5 |
| 231 | Melamine  | 203-615-4                                | 108-78-1  |
| 230 | Isobutyl 4-hydroxybenzoate  | 224-208-8                                | 4247-02-3   |
| 229 | bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof  | 247-426-5                                | 26040-51-7  |
| 228 | Barium diboron tetraoxide   | 237-222-4                                | 13701-59-2  |
| 227 | 4,4'-sulphonyldiphenol  | 201-250-5                                | 80-09-1   |
| 226 | 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol  | 201-236-9                                | 79-94-7   |
| 225 | 1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]  | 253-692-3                                | 37853-59-1  |
|     | Date of Inclusion: June 10, 2022  | EC Number                                | CAS Number  |
| 224 | N-(hydroxymethyl)acrylamide   | 213-103-2                                | 924-42-5  |
|     | Date of Inclusion: January 17, 2022   | EC Number                                | CAS Number  |
| 223 | S-(tricyclo[5.2.1.0.2,6]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                                       |
| 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)          | -  | -   |

|  |   |                                       |  |
|--|---|---------------------------------------|--|
| 221  | tris(2-methoxyethoxy)vinylsilane  | 213-934-0                             | 1067-53-4  |
| 220  | 6,6'-di-tert-butyl-2,2'-methylene-di-p-cresol   | 204-327-1                             | 119-47-1   |
| <b>Date of Inclusion: July 08, 2021</b>    |   | <b>EC Number</b>                      | <b>CAS Number</b>                                  |
| 219  | Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/or combinations thereof (PDDP)  | -                                     | -  |
| 218  | Orthoboric acid, sodium salt  | 237-560-2                             | 13840-56-7   |
| 217  | Medium-chain chlorinated paraffins (MCCP) Medium-chain chlorinated paraffins (MCCP) (UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17) | -                                     | -  |
| 216  | Glutaral  | 203-856-5                             | 111-30-8   |
| 215  | 4,4'-(1-methylpropylidene)bisphenol   | 201-025-1                             | 77-40-7  |
| 214  | 2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers  | -                                     | -  |
| 213  | 2,2-bis(bromomethyl)propane 1,3-diol (BMP);<br>2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA);<br>2,3-dibromo-1-propanol (2,3-DBPA)   | 221-967-7,<br>253-057-0,<br>202-480-9 | 3296-90-0,<br>36483-57-5,<br>1522-92-5,<br>96-13-9 |
| 212  | 1,4-dioxane   | 204-661-8                             | 123-91-1   |
| <b>Date of Inclusion: January 19, 2021</b> |   | <b>EC Number</b>                      | <b>CAS Number</b>                                  |
| 211  | Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety                    | -                                     | -  |
| 210  | Bis(2-(2-methoxyethoxy)ethyl)ether  | 205-594-7                             | 143-24-8   |
| <b>Date of Inclusion: June 25, 2020</b>    |   | <b>EC Number</b>                      | <b>CAS Number</b>                                  |
| 209  | Dibutylbis(pentane-2,4-dionato-O,O')tin   | 245-152-0                             | 22673-19-4   |
| 208  | Butyl 4-hydroxybenzoate   | 202-318-7                             | 94-26-8  |
| 207  | 2-methylimidazole   | 211-765-7                             | 693-98-1   |
| 206  | 1-vinylimidazole  | 214-012-0                             | 1072-63-5  |
| <b>Date of Inclusion: January 16, 2020</b> |   | <b>EC Number</b>                      | <b>CAS Number</b>                                  |
| 205  | Perfluorobutane sulfonic acid (PFBS) and its salts  | -                                     | -  |
| 204  | Diisohexyl phthalate  | 276-090-2                             | 71850-09-4   |
| 203  | 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one  | 400-600-6                             | 71868-10-5   |
| 202  | 2-benzyl-2-dimethylamino-4'-morpholinobutylphenone  | 404-360-3                             | 119313-12-1  |
| <b>Date of Inclusion: July 16, 2019</b>    |   | <b>EC Number</b>                      | <b>CAS Number</b>                                  |
| 201  | 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides  | -                                     | -  |
| 200  | 2-methoxyethyl acetate  | 203-772-9                             | 110-49-6   |
| 199  | 4-tert-butylphenol  | 202-679-0                             | 98-54-4  |
| 198  | Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)  | -                                     | -  |
| <b>Date of Inclusion: January 15, 2019</b> |   | <b>EC Number</b>                      | <b>CAS Number</b>                                  |
| 197  | 1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one   | 239-139-9                             | 15087-24-8   |
| 196  | Pyrene  | 204-927-3                             | 129-00-0   |
| 195  | Phenanthrene  | 201-581-5                             | 85-01-8  |
| 194  | Fluoranthene  | 205-912-4                             | 206-44-0   |
| 193  | Benzo[k]fluoranthene  | 205-916-6                             | 207-08-9   |
| 192  | 2,2-bis(4'-hydroxyphenyl)-4-methylpentane   | 401-720-1                             | 6807-17-6  |
| <b>Date of Inclusion: Jun 27, 2018</b>     |   | <b>EC Number</b>                      | <b>CAS Number</b>                                  |
| 191  | Benzene-1,2,4-tricarboxylic acid 1,2 anhydride  | 209-008-0                             | 552-30-7   |
| 190  | Benzo[ghi]perylene  | 205-883-8                             | 191-24-2   |
| 189  | Decamethylcyclopentasiloxane  | 208-764-9                             | 541-02-6   |
| 188  | Dicyclohexyl phthalate  | 201-545-9                             | 84-61-7  |
| 187  | Disodium octaborate   | 234-541-0                             | 12008-41-2   |
| 186  | Dodecamethylcyclohexasiloxane   | 234-541-0                             | 540-97-6   |
| 185  | Ethylene diamine  | 208-762-8                             | 107-15-3   |
| 184  | Lead NOTE: Does not exceed threshold levels specified in RoHS Directive (EU) 2015/863   | 203-468-6                             | 7439-92-1  |
| 183  | Octamethylcyclotetrasiloxane  | 231-100-4                             | 556-67-2   |
| 182  | Terphenyl, hydrogenated   | 209-136-7                             | 61788-32-7   |
| <b>Date of Inclusion: Jan 15, 2018</b>     |   | <b>EC Number</b>                      | <b>CAS Number</b>                                  |
| 181  | Benz[a]anthracene   | 200-280-6                             | 56-55-3<br>1718-53-2                               |
| 180  | Cadmium carbonate   | 208-168-9                             | 513-78-0   |
| 179  | Cadmium hydroxide   | 244-168-5                             | 21041-95-2   |
| 178  | Cadmium nitrate   | 233-710-6                             | 10022-68-1<br>10325-94-7                           |
| 177  | Chrysene  | 205-923-4                             | 218-01-9<br>1719-03-5                              |
| 176  | Dodecachloropentacyclo[12.2.1.1.6,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus™")  | -                                     | -  |
| 175  | Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)   | -                                     | -  |
| <b>Date of Inclusion: Jul 07, 2017</b>     |   | <b>EC Number</b>                      | <b>CAS Number</b>                                  |
| 174  | Perfluorohexane-1-sulphonic acid and its salts (PFHxS)  | 206-587-1                             | 355-46-4   |
| <b>Date of Inclusion: Dec 19, 2016</b>     |   | <b>EC Number</b>                      | <b>CAS Number</b>                                  |
| 173  | p-(1,1-dimethylpropyl)phenol  | 201-280-9                             | 80-46-6  |
| 172  | 4-heptylphenol, branched and linear   | -                                     | -  |
| 171  | Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts  | 206-400-3<br>221-470-5                | 335-76-2<br>3830-45-3<br>3108-42-7                 |
| 170  | 4,4'-isopropylidenediphenol (bisphenol A)   | 201-245-8                             | 80-5-7   |
| <b>Date of Inclusion: Jun 20, 2016</b>     |   | <b>EC Number</b>                      | <b>CAS Number</b>                                  |
| 169  | Benzo[def]chrysene(Benzo[a]pyrene)  | 200-028-5                             | 50-32-8  |
| <b>Date of Inclusion: Dec 17, 2015</b>     |   | <b>EC Number</b>                      | <b>CAS Number</b>                                  |
| 168  | 1,3-propanesultone  | 214-317-9                             | 1120-71-4  |

|  |  |  |  |
|--|--|--|--|
| 167                                    | 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)   | 223-383-8  | 3864-99-1  |
| 166                                    | 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)   | 253-037-1  | 36437-37-3   |
| 165                                    | Nitrobenzene   | 202-716-0  | 98-95-3  |
| 164                                    | Perfluorononan-1-oic-acid and its sodium and ammonium salts  | 206-801-3  | 4149-60-4<br>375-95-1<br>21049-39-8                  |
| <b>Date of Inclusion: Jun 15, 2015</b> |  | <b>EC Number</b>                                 | <b>CAS Number</b>                                    |
| 163                                    | 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)  | 272-013-1<br>271-094-0                           | 68648-93-1<br>68515-51-5                             |
| 162                                    | 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]                    | -  | -  |
| <b>Date of Inclusion: Dec 17, 2014</b> |  | <b>EC Number</b>                                 | <b>CAS Number</b>                                    |
| 161                                    | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)   | 247-384-8  | 25973-55-1   |
| 160                                    | 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)   | 223-346-6  | 3846-71-7  |
| 159                                    | 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)   | 239-622-4  | 15571-58-1   |
| 158                                    | Cadmium fluoride   | 232-222-0  | 7790-79-6  |
| 157                                    | 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) | -  | -  |
| 156                                    | Cadmium sulphate   | 233-331-6  | 10124-36-4<br>31119-53-6                             |
| <b>Date of Inclusion: Jun 16, 2014</b> |  | <b>EC Number</b>                                 | <b>CAS Number</b>                                    |
| 155                                    | 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear   | 271-093-5  | 68515-50-4   |
| 154                                    | Sodium perborate, perboric acid, sodium salt   | 234-390-0<br>239-172-9                           | 11138-47-9<br>15120-21-5                             |
| 153                                    | Sodium peroxometaborate  | 231-556-4  | 7632-04-4  |
| 152                                    | Cadmium chloride   | 233-296-7  | 10108-64-2   |
| <b>Date of Inclusion: Dec 16, 2013</b> |  | <b>EC Number</b>                                 | <b>CAS Number</b>                                    |
| 151                                    | Cadmium sulphide   | 215-147-8  | 1306-23-6  |
| 150                                    | 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  |
| 149                                    | Dihexyl phthalate  | 201-559-5  | 84-75-3  |
| 148                                    | Imidazolidine-2-thione; (2-imidazoline-2-thiol)  | 202-506-9  | 96-45-7  |
| 147                                    | Trixylyl phosphate   | 246-677-8  | 25155-23-1   |
| 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   |
| 145                                    | Lead di(acetate)   | 206-104-4  | 301-04-2   |
| <b>Date of Inclusion: Jun 20, 2013</b> |  | <b>EC Number</b>                                 | <b>CAS Number</b>                                    |
| 144                                    | Cadmium  | 231-152-8  | 7440-43-9  |
| 143                                    | Ammonium pentadecafluorooctanoate (APFO)   | 223-320-4  | 3825-26-1  |
| 142                                    | Pentadecafluorooctanoic acid (PFOA)  | 206-397-9  | 335-67-1   |
| 141                                    | Dipentyl phthalate (DPP)   | 205-017-9  | 131-18-0   |
| 140                                    | 4-Nonylphenol, branched and linear, ethoxylated  | -  | -  |
| 139                                    | Cadmium oxide  | 215-146-2  | 1306-19-0  |
| <b>Date of Inclusion: Dec 19, 2012</b> |  | <b>EC Number</b>                                 | <b>CAS Number</b>                                    |
| 138                                    | Trilead dioxide phosphonate  | 235-252-2  | 12141-20-7   |
| 137                                    | Trilead bis(carbonate)dihydroxide  | 215-290-6  | 1319-46-6  |
| 136                                    | Tricosafuorododecanoic acid  | 206-203-2  | 307-55-1   |
| 135                                    | Tetralead trioxide sulphate  | 235-380-9  | 12202-17-4   |
| 134                                    | Tetraethyllead   | 201-075-4  | 78-00-2  |
| 133                                    | Sulfurous acid, lead salt, dibasic   | 263-467-1  | 62229-08-7   |
| 132                                    | Silicic acid, lead salt  | 234-363-3  | 11120-22-2   |
| 131                                    | Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1), lead-doped   | 272-271-5  | 68784-75-8   |
| 130                                    | Pyrochlore, antimony lead yellow   | 232-382-1  | 8012-00-8  |
| 129                                    | Pentalead tetraoxide sulphate  | 235-067-7  | 12065-90-6   |
| 128                                    | Pentacosafuorotridecanoic acid   | 276-745-2  | 72629-94-8   |
| 127                                    | Orange lead (lead tetroxide)   | 215-235-6  | 1314-41-6  |
| 126                                    | o-Toluidine  | 202-429-0  | 95-53-4  |
| 125                                    | o-aminoazotoluene  | 202-591-2  | 97-56-3  |
| 124                                    | N-pentyl-isopentylphthalate  | -  | 776297-69-9  |
| 123                                    | N-methylacetamide  | 201-182-6  | 79-16-3  |
| 122                                    | N,N-dimethylformamide  | 200-679-5  | 68-12-2  |
| 121                                    | Methyloxirane (Propylene oxide)  | 200-879-2  | 75-56-9  |
| 120                                    | Methoxyacetic acid   | 210-894-6  | 625-45-6   |
| 119                                    | Lead titanium zirconium oxide  | 235-727-4  | 12626-81-2   |
| 118                                    | Lead titanium trioxide   | 235-038-9  | 12060-00-3   |
| 117                                    | Lead oxide sulfate   | 234-853-7  | 12036-76-9   |
| 116                                    | Lead monoxide (lead oxide)   | 215-267-0  | 1317-36-8  |
| 115                                    | Lead dinitrate   | 233-245-9  | 10099-74-8   |
| 114                                    | Lead cyanamidate   | 244-073-9  | 20837-86-9   |
| 113                                    | Lead bis(tetrafluoroborate)  | 237-486-0  | 13814-96-5   |
| 112                                    | Hexahydromethylphthalic anhydride  | 243-072-0<br>260-566-1<br>256-356-4<br>247-094-1 | 19438-60-9<br>57110-29-9<br>48122-14-1<br>25550-51-0 |
| 111                                    | Heptacosafuorotetradecanoic acid   | 206-803-4  | 376-06-7   |
| 110                                    | Henicosafuoroundecanoic acid   | 218-165-4  | 2058-94-8  |
| 109                                    | Furan  | 203-727-3  | 110-00-9   |
| 108                                    | Fatty acids, C16-18, lead salts  | 292-966-7  | 91031-62-8   |
| 107                                    | Dioxobis(stearato)trilead  | 235-702-8  | 12578-12-0   |
| 106                                    | Dinoseb (6-sec-butyl-2,4-dinitrophenol)  | 201-861-7  | 88-85-7  |
| 105                                    | Dimethyl sulphate  | 201-058-1  | 77-78-1  |
| 104                                    | Diisopentylphthalate   | 210-088-4  | 605-50-5   |
| 103                                    | Diethyl sulphate   | 200-589-6  | 64-67-5  |

|     |   |                                     |                                     |
|-----|---|-------------------------------------|-------------------------------------|
| 102 | Dibutyltin dichloride (DBTC)  | 211-670-0                           | 683-18-1                            |
| 101 | Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))   | 204-650-8                           | 123-77-3                            |
| 100 | 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 | 13149-00-3<br>85-42-7<br>14166-21-3 |
| 99  | Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)  | 214-604-9                           | 1163-19-5                           |
| 98  | Biphenyl-4-ylamine  | 202-177-1                           | 92-67-1                             |
| 97  | Acetic acid, lead salt, basic   | 257-175-3                           | 51404-69-4                          |
| 96  | [Phthalato(2-)]dioxotrilead   | 273-688-5                           | 69011-06-9                          |
| 95  | 6-methoxy-m-toluidine (p-cresidine)   | 204-419-1                           | 120-71-8                            |
| 94  | 4-Nonylphenol, branched and linear  | -                                   | -                                   |
| 93  | 4-methyl-m-phenylenediamine (toluene-2,4-diamine)   | 202-453-1                           | 95-80-7                             |
| 92  | 4-Aminoazobenzene   | 200-453-6                           | 60-09-3                             |
| 91  | 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated   | -                                   | -                                   |
| 90  | 4,4'-oxydianiline and its salts   | 202-977-0                           | 101-80-4                            |
| 89  | 4,4'-methylenedi-o-toluidine  | 212-658-8                           | 838-88-0                            |
| 88  | 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine  | 421-150-7                           | 143860-04-2                         |
| 87  | 1-bromopropane (n-propyl bromide)   | 203-445-0                           | 106-94-5                            |
| 86  | 1,2-Diethoxyethane  | 211-076-1                           | 629-14-1                            |
| 85  | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear  | 284-032-2                           | 84777-06-0                          |
|     | <b>Date of Inclusion: Jun 18, 2012</b>  | <b>EC Number</b>                    | <b>CAS Number</b>                   |
| 84  | $\alpha,\alpha$ -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                           |
| 83  | N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)  | 202-959-2                           | 101-61-1                            |
| 82  | 1,3,5-tris[[2S and 2R]-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione ( $\beta$ -TGIC)   | 423-400-0                           | 59653-74-6                          |
| 81  | Diboron trioxide  | 215-125-8                           | 1303-86-2                           |
| 80  | 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)   | 203-977-3                           | 112-49-2                            |
| 79  | 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                            |
| 78  | Lead(II) bis(methanesulfonate)  | 401-750-5                           | 17570-76-2                          |
| 77  | Formamide   | 200-842-0                           | 75-12-7                             |
| 76  | [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                            |
| 75  | 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)   | 203-794-9                           | 110-71-4                            |
| 74  | [4-[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]  | 219-943-6                           | 2580-56-5                           |
| 73  | 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazine-2,4,6-trione (TGIC)  | 219-514-3                           | 2451-62-9                           |
| 72  | 4,4'-bis(dimethylamino)benzophenone (Michler's ketone)  | 202-027-5                           | 90-94-8                             |
|     | <b>Date of Inclusion: Dec 19, 2011</b>  | <b>EC Number</b>                    | <b>CAS Number</b>                   |
| 71  | 4-(1,1,3,3-tetramethylbutyl)phenol  | 205-426-2                           | 140-66-9                            |
| 70  | N,N-dimethylacetamide   | 204-826-4                           | 127-19-5                            |
| 69  | Phenolphthalein   | 201-004-7                           | 77-09-8                             |
| 68  | Lead diazide, Lead azide  | 236-542-1                           | 13424-46-9                          |
| 67  | Lead dipicrate  | 229-335-2                           | 6477-64-1                           |
| 66  | 1,2-dichloroethane  | 203-458-1                           | 107-06-2                            |
| 65  | Calcium arsenate  | 231-904-5                           | 7778-44-1                           |
| 64  | Dichromium tris(chromate)   | 246-356-2                           | 24613-89-6                          |
| 63  | 2-Methoxyaniline; o-Anisidine   | 201-963-1                           | 90-04-0                             |
| 62  | Pentazinc chromate octahydroxide  | 256-418-0                           | 49663-84-5                          |
| 61  | Arsenic acid  | 231-901-9                           | 7778-39-4                           |
| 60  | Potassium hydroxyocta oxodizincate dichromate   | 234-329-8                           | 11103-86-9                          |
| 59  | Formaldehyde, oligomeric reaction products with aniline   | 500-036-1                           | 25214-70-4                          |
| 58  | Lead styphnate  | 239-290-0                           | 15245-44-0                          |
| 57  | Trilead diarsenate  | 222-979-5                           | 3687-31-8                           |
| 56  | Zirconia Aluminosilicate Refractory Ceramic Fibres  | -                                   | -                                   |
| 55  | Bis(2-methoxyethyl) phthalate   | 204-212-6                           | 117-82-8                            |
| 54  | Aluminosilicate Refractory Ceramic Fibres   | -                                   | -                                   |
| 53  | Bis(2-methoxyethyl) ether   | 203-924-4                           | 111-96-6                            |
| 52  | 2,2'-dichloro-4,4'-methylenedianiline   | 202-918-9                           | 101-14-4                            |
| 51  | Cobalt dichloride   | 231-589-4                           | 7646-79-9                           |
|     | <b>Date of Inclusion: Jun 20, 2011</b>  | <b>EC Number</b>                    | <b>CAS Number</b>                   |
| 50  | 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich  | 276-158-1                           | 71888-89-6                          |
| 49  | 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters   | 271-084-6                           | 68515-42-4                          |
| 48  | Strontium chromate  | 232-142-6                           | 7789-06-2                           |
| 47  | 1-Methyl-2-pyrrolidone  | 212-828-1                           | 872-50-4                            |
| 46  | 1,2,3-Trichloropropane  | 202-486-1                           | 96-18-4                             |
| 45  | 2-Ethoxyethyl acetate   | 203-839-2                           | 111-15-9                            |
| 44  | Hydrazine   | 206-114-9                           | 302-01-2<br>7803-57-8               |
|     | <b>Date of Inclusion: Dec 15, 2010</b>  | <b>EC Number</b>                    | <b>CAS Number</b>                   |
| 43  | Cobalt(II) diacetate  | 200-755-8                           | 71-48-7                             |
| 42  | Cobalt(II) sulphate   | 233-334-2                           | 10124-43-3                          |
| 41  | 2-Ethoxyethanol   | 203-804-1                           | 110-80-5                            |
| 40  | 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              | 13530-68-2<br>7738-94-5             |
| 39  | 2-Methoxyethanol  | 203-713-7                           | 109-86-4                            |
| 38  | Chromium trioxide   | 215-607-8                           | 1333-82-0                           |
| 37  | Cobalt(II) carbonate  | 208-169-4                           | 513-79-1                            |
| 36  | Cobalt(II) dinitrate  | 233-402-1                           | 10141-05-6                          |
|     | <b>Date of Inclusion: Jun 18, 2010</b>  | <b>EC Number</b>                    | <b>CAS Number</b>                   |

|  |   |                        |  |
|--|---|------------------------|--|
| 35                                     | Trichloroethylene   | 201-167-4              | 79-01-6  |
| 34                                     | Potassium dichromate  | 231-906-6              | 7778-50-9  |
| 33                                     | Tetraboron disodium heptaoxide, hydrate   | 235-541-3              | 12267-73-1   |
| 32                                     | Ammonium dichromate   | 232-143-1              | 7789-09-5  |
| 31                                     | Boric acid  | 233-139-2<br>234-343-4 | 11113-50-1<br>10043-35-3   |
| 30                                     | Sodium chromate   | 231-889-5              | 7775-11-3  |
| 29                                     | Disodium tetraborate, anhydrous   | 215-540-4              | 12179-04-3<br>1303-96-4<br>1330-43-4                                 |
| 28                                     | Potassium chromate  | 232-140-5              | 7789-00-6  |
| <b>Date of Inclusion: Mar 30, 2010</b> |   | <b>EC Number</b>       | <b>CAS Number</b>  |
| 27                                     | Acrylamide  | 201-173-7              | 79-06-1  |
| <b>Date of Inclusion: Jan 13, 2010</b> |   | <b>EC Number</b>       | <b>CAS Number</b>  |
| 26                                     | Lead sulfochromate yellow (C.I. Pigment Yellow 34)  | 215-693-7              | 1344-37-2  |
| 25                                     | Lead chromate molybdate sulphate red (C.I. Pigment Red 104)   | 235-759-9              | 12656-85-8   |
| 24                                     | Anthracene oil  | 292-602-7              | 90640-80-5   |
| 23                                     | 2,4-Dinitrotoluene  | 204-450-0              | 121-14-2   |
| 22                                     | Anthracene oil, anthracene paste, anthracene fraction   | 295-275-9              | 91995-15-2   |
| 21                                     | Anthracene oil, anthracene-low  | 292-604-8              | 90640-82-7   |
| 20                                     | Tris(2-chloroethyl)phosphate  | 204-118-5              | 115-96-8   |
| 19                                     | Diisobutyl phthalate  | 201-553-2              | 84-69-5  |
| 18                                     | Lead chromate   | 231-846-0              | 7758-97-6  |
| 17                                     | Anthracene oil, anthracene paste  | 292-603-2              | 90640-81-6   |
| 16                                     | Pitch, coal tar, high temp.   | 266-028-2              | 65996-93-2   |
| 15                                     | Anthracene oil, anthracene paste, distn. lights   | 295-278-5              | 91995-17-4   |
| <b>Date of Inclusion: Oct 28, 2008</b> |   | <b>EC Number</b>       | <b>CAS Number</b>  |
| 14                                     | Lead hydrogen arsenate  | 232-064-2              | 7784-40-9  |
| 13                                     | Benzyl butyl phthalate (BBP)  | 201-622-7              | 85-68-7  |
| 12                                     | Bis(2-ethylhexyl)phthalate (DEHP)   | 204-211-0              | 117-81-7   |
| 11                                     | 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)  | 201-329-4              | 81-15-2  |
| 10                                     | Diarsenic trioxide  | 215-481-4              | 1327-53-3  |
| 9                                      | Bis(tributyltin)oxide (TBTO)  | 200-268-0              | 56-35-9  |
| 8                                      | Triethyl arsenate   | 427-700-2              | 15606-95-8   |
| 7                                      | Diarsenic pentaoxide  | 215-116-9              | 1303-28-2  |
| 6                                      | Sodium dichromate   | 234-190-3              | 10588-01-9<br>7789-12-0  |
| 5                                      | Dibutyl phthalate (DBP)   | 201-557-4              | 84-74-2  |
| 4                                      | 4,4'-Diaminodiphenylmethane (MDA)   | 202-974-4              | 101-77-9   |
| 3                                      | Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)   | 287-476-5              | 85535-84-8   |
| 2                                      | Anthracene  | 204-371-1              | 120-12-7   |
| 1                                      | Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane | 247-148-4<br>221-695-9 | 25637-99-4<br>134237-52-8<br>3194-55-6<br>134237-50-6<br>134237-51-7 |

**Appendix E | REACH Substance intentionally added** (See page 1, Environmental Category & Description, if applicable to this product.)

| Restricted Substance                      | Where used         | CAS Number | Threshold Limit |
|---|--------------------|------------|-----------------|
| 4,4'-Isopropylidenediphenol (Bisphenol A) | Substrate laminate | 80-05-7    | >0.1% w/w       |

**Appendix F | TSCA**

| Restricted Substance                            | CAS Number | Threshold Limit |
|---|------------|-----------------|
| 2,4,6-Tris(tert-butyl)phenol (2,4,6-TTBP)       | 732-26-3   | >0.3% w/w       |
| Hexachlorobutadiene (HCBD)                      | 87-68-3    | >0% w/w         |
| Pentachlorothiophenol (PCTP)                    | 133-49-3   | >1% w/w         |
| Decabromodiphenyl ether (DecaBDE)               | 1163-19-5  | >0% w/w         |
| Phenol, isopropylated phosphate (3:1) (PIP 3:1) | 68937-41-7 | >0% w/w         |