**Maxlinear, Inc.**
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# 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: **XR21B1424IV64TR-F** |
|---|---|---|
| **RoHS \| Exempt** | 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 |
| **RoHS** | If “Y”, then product is RoHS compliant meeting the requirements of Directive (EU) 2015/863 with no exemptions taken. See Appendix B. | Y |
| **Halogen Free** | If “Y”, then product is halogen and lead (Pb) free. Green products meet RoHS requirements plus additional hazardous material restrictions. See Appendix C. | Y |
| **REACH** | 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 |
| **TSCA** | 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
Apr 28, 2024



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G0118-10 07/25/2023

## 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. piezoelectronic 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 | 1500 ppm Total |
| Chlorine (Cl) | 900 ppm | |
| Antimony (Sb ($Sb_2O_3$) | 900 ppm | |

## Appendix D | REACH 235 - Regulation (EC) No 1907/2006 (Threshold Limit 1000ppm (0.1% w/w))

| | **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-diylbisoxy]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(5.2.1.02,6)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'-methylenedi-p-cresol | 204-327-1 | 119-47-1 |
| | **Date of Inclusion: July 08, 2021** | EC Number | CAS Number |
| 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 | - | - |



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| | | | |
|---|---|---|---|
| 213 | 2,2-bis(bromomethyl)propane1,3-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 |
| | **Date of Inclusion: January 19, 2021** | EC Number | CAS Number |
| 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 |
| | **Date of Inclusion: June 25, 2020** | EC Number | CAS Number |
| 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 |
| | **Date of Inclusion: January 16, 2020** | EC Number | CAS Number |
| 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'-morpholinobutyrophenone | 404-360-3 | 119313-12-1 |
| | **Date of Inclusion: July 16, 2019** | EC Number | CAS Number |
| 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) | - | - |
| | **Date of Inclusion: January 15, 2019** | EC Number | CAS Number |
| 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 |
| | **Date of Inclusion: Jun 27, 2018** | EC Number | CAS Number |
| 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 | Ethylenediamine | 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 |
| | **Date of Inclusion: Jan 15, 2018** | EC Number | CAS Number |
| 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[12.2.1.16,9.02,13.05,10]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) | - | - |
| | **Date of Inclusion: Jul 07, 2017** | EC Number | CAS Number |
| 174 | Perfluorohexane-1-sulphonic acid and its salts (PFHxS) | 206-587-1 | 355-46-4 |
| | **Date of Inclusion: Dec 19, 2016** | EC Number | CAS Number |
| 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 |
| | **Date of Inclusion: Jun 20, 2016** | EC Number | CAS Number |
| 169 | Benzo[def]chrysene(Benzo[a]pyrene) | 200-028-5 | 50-32-8 |
| | **Date of Inclusion: Dec 17, 2015** | EC Number | CAS Number |
| 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 |
| | **Date of Inclusion: Jun 15, 2015** | EC Number | CAS Number |
| 163 | 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) | 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] | - | - |
| | **Date of Inclusion: Dec 17, 2014** | EC Number | CAS Number |



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| | | | |
|---|---|---|---|
| 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 |
| | **Date of Inclusion: Jun 16, 2014** | EC Number | CAS Number |
| 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 |
| | **Date of Inclusion: Dec 16, 2013** | EC Number | CAS Number |
| 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 |
| | **Date of Inclusion: Jun 20, 2013** | EC Number | CAS Number |
| 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 |
| | **Date of Inclusion: Dec 19, 2012** | EC Number | CAS Number |
| 138 | Trilead dioxide phosphonate | 235-252-2 | 12141-20-7 |
| 137 | Trilead bis(carbonate)dihydroxide | 215-290-6 | 1319-46-6 |
| 136 | Tricosafluorododecanoic 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 (H2Si2O5), 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 | Pentacosafluorotridecanoic 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 | Heptacosafluorotetradecanoic acid | 206-803-4 | 376-06-7 |
| 110 | Henicosafluoroundecanoic 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 | - | - |



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| | | | |
|---|---|---|---|
| 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 |
| | **Date of Inclusion: Jun 18, 2012** | EC Number | CAS Number |
| 84 | α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) *[with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]* | 229-851-8 | 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 (β-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 ≥ 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 ≥ 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 ≥ 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-triazinane-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 |
| | **Date of Inclusion: Dec 19, 2011** | EC Number | CAS Number |
| 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 hydroxyoctaoxodizincatedichromate | 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 |
| | **Date of Inclusion: Jun 20, 2011** | EC Number | CAS Number |
| 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 |
| | **Date of Inclusion: Dec 15, 2010** | EC Number | CAS Number |
| 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 |
| | **Date of Inclusion: Jun 18, 2010** | EC Number | CAS Number |
| 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 |
| | **Date of Inclusion: Mar 30, 2010** | EC Number | CAS Number |



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| | | | |
|---|---|---|---|
| 27 | Acrylamide | 201-173-7 | 79-06-1 |
| | **Date of Inclusion: Jan 13, 2010** | EC Number | CAS Number |
| 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 |
| | **Date of Inclusion: Oct 28, 2008** | EC Number | CAS Number |
| 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 |



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