

## 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>SP34063AEN-L/TR |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 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.                                                                        | N                               |
| 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  
May 17, 2024

## 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<br>(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 <sub>2</sub> O <sub>3</sub> )) | 900 ppm         |                |

## Appendix D | REACH 240 - Regulation (EC) No 1907/2006 (Threshold Limit 1000ppm (0.1% w/w))

| 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                                                                                                                                              | 228-098-2 | 6130-43-4   |
|                                     | Ammonium perfluoroheptanoate                                                                                                                                                       | -         | 21049-36-5  |
|                                     | potassium perfluoroheptanoate                                                                                                                                                      | 206-798-9 | 375-85-9    |
|                                     | Perfluoroheptanoic acid                                                                                                                                                            | 243-518-4 | 20109-59-5  |
| 231                                 | Sodium perfluoroheptanoate                                                                                                                                                         |           |             |
| 230                                 | Melamine                                                                                                                                                                           | 203-615-4 | 108-78-1    |
| 229                                 | Isobutyl 4-hydroxybenzoate                                                                                                                                                         | 224-208-8 | 4247-02-3   |
| 228                                 | bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof                                                                           | 247-426-5 | 26040-51-7  |
| 227                                 | Barium diboron tetraoxide                                                                                                                                                          | 237-222-4 | 13701-59-2  |
| 226                                 | 4,4'-sulphonyldiphenol                                                                                                                                                             | 201-250-5 | 80-09-1     |
| 225                                 | 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol                                                                                                                                   | 201-236-9 | 79-94-7     |
|                                     | 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'-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                                                                                                                                                        | -                                     | -                                                  |
| 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                                           |
| Date of Inclusion: January 19, 2021 |                                                                                                                                                                                                                               | EC Number                             | CAS Number                                         |
| 211                                 | Diocetyl tin 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                                 | Dodecamethylcyclotetrasiloxane                                                                                                                                                                                                | 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-ol-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]                                                         | -                                                | -                                                    |
| <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                                    | 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 (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                                    | Pentacosfluorotridecanoic 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                                    | Heptacosfluorotetradecanoic acid                                                                                                                                                                                                                                                                  | 206-803-4                                        | 376-06-7                                             |
| 110                                    | Henicosfluoroundecanoic 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 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               |
| <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                                                            |
| Date of Inclusion: Mar 30, 2010 |                                                                                                                                                                 | EC Number              | CAS Number                                                           |
| 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         |