

## 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>SP3223EEA-L/TR |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| <b>RoHS   Exempt</b>                 | If "7a", "7(c)I", or "15a", then product contains lead but is compliant meeting the requirements of Directive (EU) 2011/65 pursuant to either exemption 7a, 7(c)I, or 15a. See Appendix A.                                        | N                              |
| <b>RoHS</b>                          | If "Y", then product is RoHS compliant meeting the requirements of Directive (EU) 2015/863 with no exemptions taken. See Appendix B.                                                                                              | Y                              |
| <b>Halogen Free</b>                  | If "Y", then product is halogen and lead (Pb) free. Green products meet RoHS requirements plus additional hazardous material restrictions. See Appendix C.                                                                        | Y                              |
| <b>REACH</b>                         | If "Y", then product does not use any Substances of Very High Concern (SVHC) under REACH requirements. See Appendix D for a list of these substances.<br>If "N", please see Appendix E for SVHC that is contained in this product | Y                              |
| <b>TSCA</b>                          | If "Y", then product is compliant and does not use any of the Toxic Substance Control Act (TSCA) restricted substances. See Appendix F for a list of these substances.                                                            | Y                              |

MaxLinear, Inc.  
Quality and Reliability  
May 09, 2025

## Appendix A | RoHS with Exemption

| Exemption | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7a        | Lead in high melting temperature type solders                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 7(c)I     | Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectric devices, or in a glass or ceramic matrix compound.                                                                                                                                                                                                                                                                                                                                           |
| 15a       | Lead in solders to complete a viable electrical connection between the semiconductor die and carrier within integrated circuit flip chip packages where at least one of the following criteria applies: <ul style="list-style-type: none"> <li>a semiconductor technology node of 90 nm or larger</li> <li>a single die of 300 mm<sup>2</sup> or larger in any semiconductor technology node;</li> <li>stacked die packages with die of 300 mm<sup>2</sup> or larger, or silicon interposers of 300 mm<sup>2</sup> or larger</li> </ul> |

## 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         |
| Chlorine (Cl)                                   | 900 ppm         |
| Antimony (Sb (Sb <sub>2</sub> O <sub>3</sub> )) | 900 ppm         |

## Appendix D | REACH 247 - Regulation (EC) No 1907/2006 (Threshold Limit 1000ppm (0.1% w/w))

|     | Date of Inclusion: January 21, 2025                                                                                                                               | EC Number | CAS Number   |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------|
| 247 | reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives                                                                                | 421-820-9 | 192268-65-8  |
| 246 | Perfluamine                                                                                                                                                       | 206-420-2 | 338-83-0     |
| 245 | Octamethyltrisiloxane                                                                                                                                             | 203-497-4 | 107-51-7     |
| 244 | O,O,O-triphenyl phosphorothioate                                                                                                                                  | 209-909-9 | 597-82-0     |
| 243 | 6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl]hexanoic acid                                                                                 | 701-118-1 | 2156592-54-8 |
|     | Date of Inclusion: November 7, 2024                                                                                                                               | EC Number | CAS Number   |
| 242 | Triphenyl phosphate                                                                                                                                               | 204-112-2 | 115-86-6     |
|     | Date of Inclusion: June 27, 2024                                                                                                                                  | EC Number | CAS Number   |
| 241 | Bis(a,a-dimethylbenzyl) peroxide                                                                                                                                  | 201-279-3 | 80-43-3      |
|     | Date of Inclusion: January 23, 2024                                                                                                                               | EC Number | CAS Number   |
| 240 | Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol                                                                                    | 700-960-7 | -            |
| 239 | Bumetizole (UV-326)                                                                                                                                               | 223-445-4 | 3896-11-5    |
| 238 | 2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one                                                                              | 438-340-0 | 119344-86-4  |
| 237 | 2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol                                                                                                       | 221-573-5 | 3147-75-9    |
| 236 | 2,4,6-tri-tert-butylphenol                                                                                                                                        | 211-989-5 | 732-26-3     |
|     | Date of Inclusion: June 14, 2023                                                                                                                                  | EC Number | CAS Number   |
| 235 | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide                                                                                                                   | 278-355-8 | 75980-60-8   |
| 234 | bis(4-chlorophenyl) sulphone                                                                                                                                      | 201-247-9 | 80-07-9      |
|     | Date of Inclusion: January 17, 2023                                                                                                                               | EC Number | CAS Number   |
| 233 | reaction mass of 2,2,3,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine | 473-390-7 | -            |

|                                     |                                                                                                                                                                                                                               |                                          |                                                    |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|----------------------------------------------------|
| 232                                 | Perfluoroheptanoic acid and its salts<br>Ammonium perfluoroheptanoate<br>potassium perfluoroheptanoate<br>Perfluoroheptanoic acid<br>Sodium perfluoroheptanoate                                                               | 228-098-2<br>-<br>206-798-9<br>243-518-4 | 6130-43-4<br>21049-36-5<br>375-85-9<br>20109-59-5  |
| 231                                 | Melamine                                                                                                                                                                                                                      | 203-615-4                                | 108-78-1                                           |
| 230                                 | Isobutyl 4-hydroxybenzoate                                                                                                                                                                                                    | 224-208-8                                | 4247-02-3                                          |
| 229                                 | bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof                                                                                                                      | 247-426-5                                | 26040-51-7                                         |
| 228                                 | Barium diboron tetraoxide                                                                                                                                                                                                     | 237-222-4                                | 13701-59-2                                         |
| 227                                 | 4,4'-sulphonyldiphenol                                                                                                                                                                                                        | 201-250-5                                | 80-09-1                                            |
| 226                                 | 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol                                                                                                                                                                              | 201-236-9                                | 79-94-7                                            |
| 225                                 | 1,1'-(ethane-1,2-diylbisoxo)bis[2,4,6-tribromobenzene]                                                                                                                                                                        | 253-692-3                                | 37853-59-1                                         |
| Date of Inclusion: June 10, 2022    |                                                                                                                                                                                                                               | EC Number                                | CAS Number                                         |
| 224                                 | N-(hydroxymethyl)acrylamide                                                                                                                                                                                                   | 213-103-2                                | 924-42-5                                           |
| Date of Inclusion: January 17, 2022 |                                                                                                                                                                                                                               | EC Number                                | CAS Number                                         |
| 223                                 | S-(tricyclo(5.2.1.02,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate                                                                            | 401-850-9                                | 255881-94-8                                        |
| 222                                 | (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)                                                                        | -                                        | -                                                  |
| 221                                 | tris(2-methoxyethoxy)vinylsilane                                                                                                                                                                                              | 213-934-0                                | 1067-53-4                                          |
| 220                                 | 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol                                                                                                                                                                                  | 204-327-1                                | 119-47-1                                           |
| Date of Inclusion: July 08, 2021    |                                                                                                                                                                                                                               | EC Number                                | CAS Number                                         |
| 219                                 | Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/or combinations thereof (PDDP)                                            | -                                        | -                                                  |
| 218                                 | Orthoboric acid, sodium salt                                                                                                                                                                                                  | 237-560-2                                | 13840-56-7                                         |
| 217                                 | Medium-chain chlorinated paraffins (MCCP) Medium-chain chlorinated paraffins (MCCP) (UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17) | -                                        | -                                                  |
| 216                                 | Glutaral                                                                                                                                                                                                                      | 203-856-5                                | 111-30-8                                           |
| 215                                 | 4,4'-(1-methylpropylidene)bisphenol                                                                                                                                                                                           | 201-025-1                                | 77-40-7                                            |
| 214                                 | 2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers                                                                                                                                                        | -                                        | -                                                  |
| 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'-morpholinobutylphenone                                                                                                                                                                            | 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)                                                                                                                                                                     | -                                        | -                                                  |
| 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                                 | Decamethylcyclotetrasiloxane                                                                                                                                                                                                  | 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]                    | -                      | -                                   |
| Date of Inclusion: Dec 17, 2014 |                                                                                                                                                                                                                                                              | EC Number              | CAS Number                          |
| 161                             | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)                                                                                                                                                                                                     | 247-384-8              | 25973-55-1                          |
| 160                             | 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)                                                                                                                                                                                                         | 223-346-6              | 3846-71-7                           |
| 159                             | 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)                                                                                                                                                                       | 239-622-4              | 15571-58-1                          |
| 158                             | Cadmium fluoride                                                                                                                                                                                                                                             | 232-222-0              | 7790-79-6                           |
| 157                             | reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[(2-[(2-ethylhexyl)oxy]-2-oxoethyl)thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE) | -                      | -                                   |
| 156                             | Cadmium sulphate                                                                                                                                                                                                                                             | 233-331-6              | 10124-36-4<br>31119-53-6            |
| Date of Inclusion: Jun 16, 2014 |                                                                                                                                                                                                                                                              | EC Number              | CAS Number                          |
| 155                             | 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear                                                                                                                                                                                             | 271-093-5              | 68515-50-4                          |
| 154                             | Sodium perborate, perboric acid, sodium salt                                                                                                                                                                                                                 | 234-390-0<br>239-172-9 | 11138-47-9<br>15120-21-5            |
| 153                             | Sodium peroxometaborate                                                                                                                                                                                                                                      | 231-556-4              | 7632-04-4                           |
| 152                             | Cadmium chloride                                                                                                                                                                                                                                             | 233-296-7              | 10108-64-2                          |
| Date of Inclusion: Dec 16, 2013 |                                                                                                                                                                                                                                                              | EC Number              | CAS Number                          |
| 151                             | Cadmium sulphide                                                                                                                                                                                                                                             | 215-147-8              | 1306-23-6                           |
| 150                             | Disodium 4-amino-3-[[4'-[[2,4-diaminophenyl]azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)                                                                                                         | 217-710-3              | 1937-37-7                           |
| 149                             | Dihexyl phthalate                                                                                                                                                                                                                                            | 201-559-5              | 84-75-3                             |
| 148                             | Imidazolidine-2-thione; (2-imidazoline-2-thiol)                                                                                                                                                                                                              | 202-506-9              | 96-45-7                             |
| 147                             | Triethyl 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 diacetate)                                                                                                                                                                                                                                              | 206-104-4              | 301-04-2                            |
| Date of Inclusion: Jun 20, 2013 |                                                                                                                                                                                                                                                              | EC Number              | CAS Number                          |
| 144                             | Cadmium                                                                                                                                                                                                                                                      | 231-152-8              | 7440-43-9                           |
| 143                             | Ammonium pentadecafluorooctanoate (APFO)                                                                                                                                                                                                                     | 223-320-4              | 3825-26-1                           |
| 142                             | Pentadecafluorooctanoic acid (PFOA)                                                                                                                                                                                                                          | 206-397-9              | 335-67-1                            |
| 141                             | Dipentyl phthalate (DPP)                                                                                                                                                                                                                                     | 205-017-9              | 131-18-0                            |
| 140                             | 4-Nonylphenol, branched and linear, ethoxylated                                                                                                                                                                                                              | -                      | -                                   |
| 139                             | Cadmium oxide                                                                                                                                                                                                                                                | 215-146-2              | 1306-19-0                           |
| Date of Inclusion: Dec 19, 2012 |                                                                                                                                                                                                                                                              | EC Number              | CAS Number                          |
| 138                             | Trilead dioxide phosphonate                                                                                                                                                                                                                                  | 235-252-2              | 12141-20-7                          |
| 137                             | Trilead bis(carbonate)dihydroxide                                                                                                                                                                                                                            | 215-290-6              | 1319-46-6                           |
| 136                             | Tricosafluorododecanoic acid                                                                                                                                                                                                                                 | 206-203-2              | 307-55-1                            |
| 135                             | Tetralead trioxide sulphate                                                                                                                                                                                                                                  | 235-380-9              | 12202-17-4                          |
| 134                             | Tetraethyllead                                                                                                                                                                                                                                               | 201-075-4              | 78-00-2                             |
| 133                             | Sulfurous acid, lead salt, dibasic                                                                                                                                                                                                                           | 263-467-1              | 62229-08-7                          |
| 132                             | Silicic acid, lead salt                                                                                                                                                                                                                                      | 234-363-3              | 11120-22-2                          |
| 131                             | Silicic acid (H2Si2O5), barium salt (1:1), lead-doped                                                                                                                                                                                                        | 272-271-5              | 68784-75-8                          |
| 130                             | Pyrochlore, antimony lead yellow                                                                                                                                                                                                                             | 232-382-1              | 8012-00-8                           |
| 129                             | Pentalead tetraoxide sulphate                                                                                                                                                                                                                                | 235-067-7              | 12065-90-6                          |
| 128                             | 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                                    | Heptacosafuorotetradecanoic acid                                                                                                                                                                                                                                                                  | 206-803-4                                        | 376-06-7                                             |
| 110                                    | Henicosafuoroundecanoic acid                                                                                                                                                                                                                                                                      | 218-165-4                                        | 2058-94-8                                            |
| 109                                    | Furan                                                                                                                                                                                                                                                                                             | 203-727-3                                        | 110-00-9                                             |
| 108                                    | Fatty acids, C16-18, lead salts                                                                                                                                                                                                                                                                   | 292-966-7                                        | 91031-62-8                                           |
| 107                                    | Dioxobis(stearato)trilead                                                                                                                                                                                                                                                                         | 235-702-8                                        | 12578-12-0                                           |
| 106                                    | Dinoseb (6-sec-butyl-2,4-dinitrophenol)                                                                                                                                                                                                                                                           | 201-861-7                                        | 88-85-7                                              |
| 105                                    | Dimethyl sulphate                                                                                                                                                                                                                                                                                 | 201-058-1                                        | 77-78-1                                              |
| 104                                    | Diisopentylphthalate                                                                                                                                                                                                                                                                              | 210-088-4                                        | 605-50-5                                             |
| 103                                    | Diethyl sulphate                                                                                                                                                                                                                                                                                  | 200-589-6                                        | 64-67-5                                              |
| 102                                    | Dibutyltin dichloride (DBTC)                                                                                                                                                                                                                                                                      | 211-670-0                                        | 683-18-1                                             |
| 101                                    | Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))                                                                                                                                                                                                                                                 | 204-650-8                                        | 123-77-3                                             |
| 100                                    | Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry] | 201-604-9<br>236-086-3<br>238-009-9              | 13149-00-3<br>85-42-7<br>14166-21-3                  |
| 99                                     | Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)                                                                                                                                                                                                                                    | 214-604-9                                        | 1163-19-5                                            |
| 98                                     | Biphenyl-4-ylamine                                                                                                                                                                                                                                                                                | 202-177-1                                        | 92-67-1                                              |
| 97                                     | Acetic acid, lead salt, basic                                                                                                                                                                                                                                                                     | 257-175-3                                        | 51404-69-4                                           |
| 96                                     | [Phthalato(2-)]dioxotrilead                                                                                                                                                                                                                                                                       | 273-688-5                                        | 69011-06-9                                           |
| 95                                     | 6-methoxy-m-toluidine (p-cresidine)                                                                                                                                                                                                                                                               | 204-419-1                                        | 120-71-8                                             |
| 94                                     | 4-Nonylphenol, branched and linear                                                                                                                                                                                                                                                                | -                                                | -                                                    |
| 93                                     | 4-methyl-m-phenylenediamine (toluene-2,4-diamine)                                                                                                                                                                                                                                                 | 202-453-1                                        | 95-80-7                                              |
| 92                                     | 4-Aminoazobenzene                                                                                                                                                                                                                                                                                 | 200-453-6                                        | 60-09-3                                              |
| 91                                     | 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated                                                                                                                                                                                                                                                   | -                                                | -                                                    |
| 90                                     | 4,4'-oxydianiline and its salts                                                                                                                                                                                                                                                                   | 202-977-0                                        | 101-80-4                                             |
| 89                                     | 4,4'-methylenedio-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                                     | α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]                                                                                                            | 229-851-8                                        | 6786-83-0                                            |
| 83                                     | N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)                                                                                                                                                                                                                                    | 202-959-2                                        | 101-61-1                                             |
| 82                                     | 1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)                                                                                                                                                                                                           | 423-400-0                                        | 59653-74-6                                           |
| 81                                     | Diboron trioxide                                                                                                                                                                                                                                                                                  | 215-125-8                                        | 1303-86-2                                            |
| 80                                     | 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)                                                                                                                                                                                                                                                 | 203-977-3                                        | 112-49-2                                             |
| 79                                     | 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]                                                                                                                                                 | 209-218-2                                        | 561-41-1                                             |
| 78                                     | Lead(II) bis(methanesulfonate)                                                                                                                                                                                                                                                                    | 401-750-5                                        | 17570-76-2                                           |
| 77                                     | Formamide                                                                                                                                                                                                                                                                                         | 200-842-0                                        | 75-12-7                                              |
| 76                                     | [4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]                                                                                | 208-953-6                                        | 548-62-9                                             |
| 75                                     | 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)                                                                                                                                                                                                                                       | 203-794-9                                        | 110-71-4                                             |
| 74                                     | [4-[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]                                                                 | 219-943-6                                        | 2580-56-5                                            |
| 73                                     | 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-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 hydroxyoctaoxidizincatedichromate                                                                                                                                                                                                                                                       | 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                                                |
| Date of Inclusion: Dec 15, 2010 |                                                                                                                                                                                 | EC Number              | CAS Number                                                           |
| 43                              | Cobalt(II) diacetate                                                                                                                                                            | 200-755-8              | 71-48-7                                                              |
| 42                              | Cobalt(II) sulphate                                                                                                                                                             | 233-334-2              | 10124-43-3                                                           |
| 41                              | 2-Ethoxyethanol                                                                                                                                                                 | 203-804-1              | 110-80-5                                                             |
| 40                              | Acids generated from chromium trioxide and their oligomers. Names of the acids and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid. | 231-801-5<br>236-881-5 | 13530-68-2<br>7738-94-5                                              |
| 39                              | 2-Methoxyethanol                                                                                                                                                                | 203-713-7              | 109-86-4                                                             |
| 38                              | Chromium trioxide                                                                                                                                                               | 215-607-8              | 1333-82-0                                                            |
| 37                              | Cobalt(II) carbonate                                                                                                                                                            | 208-169-4              | 513-79-1                                                             |
| 36                              | Cobalt(II) dinitrate                                                                                                                                                            | 233-402-1              | 10141-05-6                                                           |
| Date of Inclusion: Jun 18, 2010 |                                                                                                                                                                                 | EC Number              | CAS Number                                                           |
| 35                              | Trichloroethylene                                                                                                                                                               | 201-167-4              | 79-01-6                                                              |
| 34                              | Potassium dichromate                                                                                                                                                            | 231-906-6              | 7778-50-9                                                            |
| 33                              | Tetraboron disodium heptaoxide, hydrate                                                                                                                                         | 235-541-3              | 12267-73-1                                                           |
| 32                              | Ammonium dichromate                                                                                                                                                             | 232-143-1              | 7789-09-5                                                            |
| 31                              | Boric acid                                                                                                                                                                      | 233-139-2<br>234-343-4 | 11113-50-1<br>10043-35-3                                             |
| 30                              | Sodium chromate                                                                                                                                                                 | 231-889-5              | 7775-11-3                                                            |
| 29                              | Disodium tetraborate, anhydrous                                                                                                                                                 | 215-540-4              | 12179-04-3<br>1303-96-4<br>1330-43-4                                 |
| 28                              | Potassium chromate                                                                                                                                                              | 232-140-5              | 7789-00-6                                                            |
| Date of Inclusion: Mar 30, 2010 |                                                                                                                                                                                 | EC Number              | CAS Number                                                           |
| 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         |

