### Environmental Category & Description

<table>
<thead>
<tr>
<th>Environmental Category &amp; Description</th>
<th>Details for:</th>
</tr>
</thead>
<tbody>
<tr>
<td>**RoHS</td>
<td>Exempt**</td>
</tr>
<tr>
<td>If “7a”, “7c”, or “15”, then product contains lead but is compliant meeting the requirements of Directive (EU) 2011/65 pursuant to either exemption 7a, 7c, or 15. See Appendix A.</td>
<td></td>
</tr>
<tr>
<td><strong>RoHS</strong></td>
<td></td>
</tr>
<tr>
<td>If “Y”, then product is RoHS compliant meeting the requirements of Directive (EU) 2015/863 with no exemptions taken. See Appendix B.</td>
<td></td>
</tr>
<tr>
<td><strong>Halogen Free</strong></td>
<td></td>
</tr>
<tr>
<td>If “Y”, then product is halogen and lead (Pb) free. Green products meet RoHS requirements plus additional hazardous material restrictions. See Appendix C.</td>
<td></td>
</tr>
<tr>
<td><strong>REACH</strong></td>
<td></td>
</tr>
<tr>
<td>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. If &quot;N&quot;, please see Appendix E for SVHC that is contained in this product.</td>
<td></td>
</tr>
<tr>
<td><strong>TSCA</strong></td>
<td></td>
</tr>
<tr>
<td>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.</td>
<td></td>
</tr>
</tbody>
</table>

MaxLinear, Inc.
Quality and Reliability
Apr 11, 2024
Appendix A | RoHS with Exemption

<table>
<thead>
<tr>
<th>Exemption</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>7a</td>
<td>Lead in high melting temperature type solders</td>
</tr>
<tr>
<td>7c</td>
<td>Electrical and electronic components containing lead in a glass or ceramic, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.</td>
</tr>
<tr>
<td>15</td>
<td>Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages</td>
</tr>
</tbody>
</table>

Appendix B | RoHS Directive (EU) 2015/863

<table>
<thead>
<tr>
<th>Restricted Substance</th>
<th>Allowable Limit (at homogenous material level)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cadmium (Cd)</td>
<td>100 ppm (0.01 weight %)</td>
</tr>
<tr>
<td>Mercury (Hg)</td>
<td>1000 ppm (0.10 weight %)</td>
</tr>
<tr>
<td>Lead (Pb)</td>
<td>1000 ppm (0.10 weight %)</td>
</tr>
<tr>
<td>Hexavalent Chromium (Cr6+)</td>
<td>1000 ppm (0.10 weight %)</td>
</tr>
<tr>
<td>Polybrominated diphenyls (PBB)</td>
<td>1000 ppm (0.10 weight %)</td>
</tr>
<tr>
<td>Polybrominated diphenyl ethers (PBDE)</td>
<td>1000 ppm (0.10 weight %)</td>
</tr>
<tr>
<td>Bis (2-Ethylhexyl) phthalate (DEHP)</td>
<td>1000 ppm (0.10 weight %)</td>
</tr>
<tr>
<td>Benzyl butyl phthalate (BBP)</td>
<td>1000 ppm (0.10 weight %)</td>
</tr>
<tr>
<td>Dibutyl phthalate (DBP)</td>
<td>1000 ppm (0.10 weight %)</td>
</tr>
<tr>
<td>Diisobutyl phthalate (DIBP)</td>
<td>1000 ppm (0.10 weight %)</td>
</tr>
</tbody>
</table>

Appendix C | Halogen Free

<table>
<thead>
<tr>
<th>Restricted Substance</th>
<th>Allowable Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bromine (Br)</td>
<td>900 ppm</td>
</tr>
<tr>
<td>Chlorine (Cl)</td>
<td>900 ppm</td>
</tr>
<tr>
<td>Antimony (Sb, Sb₂O₃)</td>
<td>900 ppm</td>
</tr>
<tr>
<td>Total</td>
<td>1500 ppm</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Date of Inclusion: June 14, 2023</th>
<th>EC Number</th>
<th>CAS Number</th>
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<tbody>
<tr>
<td>235</td>
<td>278-355-8</td>
<td>75980-60-8</td>
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<tr>
<td>234</td>
<td>201-247-9</td>
<td>80-07-9</td>
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<table>
<thead>
<tr>
<th>Date of Inclusion: January 17, 2023</th>
<th>EC Number</th>
<th>CAS Number</th>
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</thead>
<tbody>
<tr>
<td>233</td>
<td>228-098-2</td>
<td>6130-43-4</td>
</tr>
<tr>
<td>232</td>
<td>206-798-9</td>
<td>375-85-9</td>
</tr>
<tr>
<td>231</td>
<td>201-250-5</td>
<td>20109-59-5</td>
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<tr>
<td>230</td>
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<td>229</td>
<td>243-518-4</td>
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</tr>
<tr>
<td>228</td>
<td>204-398-7</td>
<td>20109-59-5</td>
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<td>227</td>
<td>247-426-5</td>
<td>20109-59-5</td>
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<tr>
<td>226</td>
<td>253-692-4</td>
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<td>225</td>
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<tr>
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<tr>
<td>221-967-7</td>
<td>327b-90-0, 36483-57-5, 1512-93-5, 96-13-9</td>
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<tr>
<td>253-057-0</td>
<td>202-480-9</td>
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<tr>
<td>204-661-8</td>
<td>123-91-1</td>
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**Date of Inclusion:** January 19, 2021

**Date of Inclusion:** January 21, 2020

**Date of Inclusion:** January 16, 2020

**Date of Inclusion:** January 12, 2020

**Date of Inclusion:** January 10, 2019

**Date of Inclusion:** January 8, 2019

**Date of Inclusion:** January 6, 2019

**Date of Inclusion:** January 4, 2019

**Date of Inclusion:** January 2, 2019

**Date of Inclusion:** January 1, 2019

**Date of Inclusion:** December 21, 2018

**Date of Inclusion:** December 19, 2018

**Date of Inclusion:** December 17, 2018

**Date of Inclusion:** December 15, 2018

**Date of Inclusion:** December 13, 2018

**Date of Inclusion:** December 11, 2018

**Date of Inclusion:** December 9, 2018

**Date of Inclusion:** December 7, 2018

**Date of Inclusion:** December 5, 2018

**Date of Inclusion:** December 3, 2018

**Date of Inclusion:** December 1, 2018

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**Date of Inclusion:** November 29, 2018

**Date of Inclusion:** November 27, 2018

**Date of Inclusion:** November 25, 2018

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**Date of Inclusion:** March 25, 2018

**Date of Inclusion:** March 23, 2018

**Date of Inclusion:** March 21, 2018

**Date of Inclusion:** March 19, 2018

**Date of Inclusion:** March 17, 2018

**Date of Inclusion:** March 15, 2018
161 2-(2H-benzo[1,2-b:4,5-b']difuran-3-yl)pentylphenol (UV-328) 247-384-8 25973-55-1
160 2-benzoxazol-2-yl-4,4,5,5-tetramethyl-1,3,2-dioxaborolane (UV-320) 223-346-6 3846-71-7
159 2-ethylhexyl 10-ethyl-4,4-diocetyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) 239-622-4 15571-58-1
158 Cadmium Fluoride 232-220-2 7790-78-6
157 reaction mass of 2-ethylhexyl 10-ethyl-4,4-diocetyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[2-ethylhexyl]oxy-1,2-oxoethyl][4-oxocyt-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and DOTI) - -
156 Cadmium sulphate 233-33-1 10124-36-4 31119-93-6

Date of Inclusion: Jun 16, 2014 EC Number CAS Number
155 1,2-Benzenedicarboxylic acid, dihydroxy, branched and linear 271-095-5 683115-50-4
154 Sodium perborate, perboric acid, sodium salt 234-390-0 1113847-9 239-172-9 15120-21-5
153 Sodium peroxometaborate 231-556-4 781204-4
152 Cadmium chloride 233-296-7 1010846-2

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-y]azo]-5-hydroxy-6-(phenylazo)naphtalene-2,7-disulphonic acid (C.I. Direct Black 38) 217-710-3 193737-7
149 Dihexyl phthalate 201-559-5 84-75-3
148 Imidazolidine-2-thione; (2-imidazolidine-2-thiol) 202-506-9 9645-7
147 Trans-phosphite 146-677-8 1511323-1
146 Disodium 3.3'[(1,1'-biphenyl)4,4'-diyl]bis[azo](bis(4-aminonaphthalene-1-sulphonate)(C.I. Direct Red 28) 209-358-4 57358-0
145 Lead (dipicarte) 206-104-4 301042-5

Date of Inclusion: Jun 20, 2013 EC Number CAS Number
144 Cadmium 231-152-8 744043-9
143 Ammonium pentadecafluorooctanoate (APFO) 223-320-4 382526-1
142 Pentadecafluorooctanoic acid (PFOA) 206-397-9 335471-7
141 Dipentyl phthalate (DPP) 205-017-9 111387-6
140 4-Nonylphenol, branched and linear, ethoxylated 215-146-2 1306-19-0

Date of Inclusion: Dec 19, 2012 EC Number CAS Number
139 Cadmium oxide 234-363-3 1112022-2
138 Trilead diiodide phosphate 235-252-2 1214127-9
137 Trilead bis(carbonate) dihydroxide 215-290-6 131946-6
136 Tricosafluoroacetic acid 206-203-2 30755-1
135 Tetralead tetrasulphide 235-380-9 1220217-4
134 Tetraethyllead 201-075-4 76002-0
133 Sulphuric acid, lead salt, dibasic 234-136-3 6222908-8
132 Silicic acid, lead salt 234-536-3 1112022-2
131 Silicic acid (H2SiOs)3; barium salt (1:1); lead-doped 237-275-5 68784-75-8
130 Pyroclore, antimony lead yellow 232-382-1 8012200-8
129 Pentalead tetraoxide sulphate 235-067-7 1206596-0
128 Pentacosfluorotetradecanoic acid 276-745-2 7262994-8
127 Orange lead (lead tetroxide) 215-235-6 131441-6
126 o-Toluidine 202-429-0 9553-4
125 o-aminocarboxylic acid 202-592-1 9756-3
124 N-pentylisopropylphthalate 7752697-69-9
123 N-methylcarbazole 201-182-6 7916-3
122 N,N-dimethylformamide 200-679-5 6812-2
121 Methylphenolcarboxylic acid 200-879-2 7556-9
120 Methylacetic acid 210-894-6 62540-6
119 Lead titanium oxalate 235-727-4 1262681-1
118 Lead tetratitanium oxide 235-038-9 1206000-3
117 Lead oxide sulphate 234-853-7 1203676-9
116 Lead monoxide (lead oxide) 235-167-0 131178-8
115 Lead dihydrate 231-245-9 1003974-8
114 Lead cyanate 244-073-9 2085746-9
113 Lead bis(tetrafluoroborate) 237-486-0 1381496-5
112 Hexahydromethyldithialedholide 247-012-0 1943860-9
111 Heptacosfluorotetradecanoic acid 260-566-1 5711029-9
110 Hexacosfluoroundecanoic acid 256-356-4 4812214-1
109 Furan 347-094-1 355501-0
108 Tetrabromoethane, C18-18, lead salts 192-966-7 9103162-8
107 Dioctyl[stearato]trilead 235-702-8 1257812-0
106 Dibenzo[b,f]-2,4-dinitrophenol 201-861-7 8845-7
105 Dimethyl sulphate 201-058-1 7778-1
104 Diisopropylphthalate 210-088-4 605559-0
103 Diethyl sulphate 200-589-6 64675
102 Dibutyltin dichloride (DBT) 211-670-0 68318-1
101 Dioctane-1,2-dicarboximide (C8-C10;formamide)) 204-650-8 12373-77-3
99 Bis[2-naphthalenemethyl] (terephthalomethyldiphenyl ether; DecalBE) 214-609-4 1163195-9
98 Biphenvl-4ylanine 202-177-1 9267-1
97 Acetic acid, lead salt, basic 257-175-3 5140469-4
96 Phthalic acid; (z)-chloroformyl 271-888-8 690118-9
95 3-methoxy-m-toluidine (m-cresidine) 204-419-1 12071-8
94 4-Nonylphenol, branched and linear - -
<table>
<thead>
<tr>
<th>EC Number</th>
<th>CAS Number</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>203-713-7</td>
<td>202-027-5</td>
<td>with ≥ 0.1% of Michler’s ketone (EC No. 202-027-5) or Michler’s base (EC No. 202-959-2)</td>
</tr>
</tbody>
</table>

**References:**
- MaxLinear Inc.
- Carlsbad, CA 92008
- www.maxlinear.com

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

<table>
<thead>
<tr>
<th>Restricted Substance</th>
<th>Where used</th>
<th>CAS Number</th>
<th>Threshold Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4’-isopropylidenediphenol (Bisphenol A)</td>
<td>Substrate laminate</td>
<td>80-05-7</td>
<td>&gt;0.1% w/w</td>
</tr>
</tbody>
</table>

Appendix F | TSCA

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