### Environmental Category & Description

<table>
<thead>
<tr>
<th>Details for:</th>
<th>SP3243EUEY-L/TR</th>
</tr>
</thead>
<tbody>
<tr>
<td>**RoHS</td>
<td>Exempt**</td>
</tr>
<tr>
<td><strong>RoHS</strong></td>
<td>If “Y”, then product is RoHS compliant meeting the requirements of Directive (EU) 2015/863 with no exemptions taken. See Appendix B.</td>
</tr>
<tr>
<td><strong>Halogen Free</strong></td>
<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>
</tr>
<tr>
<td><strong>REACH</strong></td>
<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>
</tr>
<tr>
<td><strong>TSCA</strong></td>
<td>If &quot;Y&quot;, 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>
</tr>
</tbody>
</table>

MaxLinear, Inc.
Quality and Reliability
May 01, 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 biphenyls (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 (Sb₂O₃)</td>
<td>900 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>
</tr>
</thead>
<tbody>
<tr>
<td>235 diphényl(2,4,6-triméthylbenzyl)phosphine oxide</td>
<td>278-355-8</td>
<td>75980-60-8</td>
</tr>
<tr>
<td>234 bis-(4-chloro-phenyl) disulfone</td>
<td>201-247-9</td>
<td>80-07-9</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Date of Inclusion: June 10, 2022</th>
<th>EC Number</th>
<th>CAS Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>244 N-(hydroxyethyl)acrylamide</td>
<td>213-103-2</td>
<td>914-42-5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Date of Inclusion: July 08, 2021</th>
<th>EC Number</th>
<th>CAS Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>219 Phenol, alkylation products (mainly in para position) with C12+ branched alkyl chains from oligomerisation, covering any individual isomers and/or combinations thereof (PDDP)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>218 Orthophosphoric acid, sodium salt</td>
<td>237-560-2</td>
<td>13840-56-7</td>
</tr>
<tr>
<td>217 Medium-chain chlorinated paraffins (MCCP) Medium-chain chlorinated paraffins (MCCP)</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

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Maxlinear, Inc.
5966 La Place Court, Suite 100
Carlsbad, CA 92008
www.maxlinear.com

Date of Inclusion: Jun 18, 2012
84 a, a'-Bis(4-dimethylaminophenyl)-4 (phenylaminophenyl-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 6788-83-0
85 N,N'-N,N'-Tetramethyl-4,4'-methylene dianiline (Michler's base)
202-959-2 101-61-1
87 1,3,5-tris[(25 and 2R,2S)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-[1H,3H,5H]trione (β-TIGC)
423-400-0 59653-74-6
88 Diboron trioxide
215-125-8 1300-86-2
90 1,2-di(2-methoxyethoxy)ethane (TEGDME; triglyme)
203-977-3 112-49-2
91 4,4'-Bis(dimethylamine)-4'-dimethylaminophenyl alcohol (with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2))
209-218-2 561-11-1
97 Lead di(n-butyl)phthalate
401-750-5 17570-76-2
98 Formamide
100-64-2 75-12-7
99 [4,4'-Bis(dimethylamine)benzylidene]cyclohexa-2,5-dien-1-yldene]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))
208-953-8 548-62-9
100 1,2-dichloroethane; ethylene glycol dimethyl ether (EGDME)
203-794-9 110-71-4
101 [4-[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-yldene]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
103 1,3,5-trisoxiran-2-methyl)-1,3,5-triazinane-2,4,6-trione (TGIC)
219-514-3 2451-62-9
104 4,4'-Bis(dimethylaminophenalenone (Michler's ketone)
202-027-5 90-84-8
107 1,2-dimethylacacetamide
204-826-4 127-19-5
109 Phenolphthalein
201-004-7 77-09-8
110 Lead azide, lead oxide
236-542-1 1344-48-6
111 Lead dicarbonate
229-335-2 6477-68-1
112 1,2-dichloroethane
203-458-1 107-06-2
113 Calcium arsenate
231-904-5 7778-44-1
114 Dichromium tris(chromate)
246-356-2 24613-89-6
115 2-Methoxynaphthol, m-Arisidine
201-963-1 90-04-0
116 Paraldehydes carboxylic acids
256-419-0 4983-84-5
117 Arsenic acid
231-901-9 7778-38-9
120 Potassium hydroxyoctaoxodizincatedichromate
334-329-8 11103-86-9
121 Formaldehyde, oligomeric reaction products with aniline
500-036-1 25214-70-4
122 Lead styphnate
239-290-0 15245-44-0
123 Triethiodiarsenate
222-979-5 3687-31-8
124 Zirconia Aluminoisocitate Refractory Ceramic Fibres
- -
125 Bis(2-methoxyethyl) phthalate
204-212-6 117-82-8
126 Aluminoisocitate Refractory Ceramic Fibres
- -
127 Bis(methoxyethyl)ether
203-924-4 111-96-6
128 2,2'-Dichloro-4,4'-methylene dianiline
202-918-9 101-14-4
130 Cobalt dichloride
231-585-6 7646-79-9
Date of Inclusion: Jun 20, 2011
131 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich
276-158-1 71888-89-6
132 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters
271-084-6 68515-42-4
133 Chromium oxide
133-142-6 7789-08-5
134 1-Methyl-2-pyrolidone
212-828-1 872-50-4
135 1,2,3-Trichloropropane
202-486-1 96-18-4
136 2-Ethoxyethylic acid
203-839-2 111-15-9
137 Hydrazine
206-114-9 302-01-2
78037-5-7
Date of Inclusion: Dec 15, 2010
138 Cobalt(ii) diacetate
200-755-8 71-48-7
139 Cobalt(ii) sulphate
233-334-2 10124-93-3
141 2-Ethoxyethanol
203-804-1 110-80-5
144 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 13530-68-2
145 2-Methyethanol
203-713-7 109-86-4
147 Chromium trioxide
215-607-8 1313-82-0
147 Cobalt(ii) carbonate
208-169-4 513-79-1
149 Cobalt(ii) dinitrate
231-401-1 10141-56-5
Date of Inclusion: Jun 18, 2010
151 Trichloroethylene
201-167-4 79-01-6
152 Potassium dichromate
231-906-6 7778-50-9
153 Tetrafluoroboric acid, anhydrous
235-541-1 12267-73-1
154 Ammonium dichromate
232-143-1 7789-09-5
156 Boric acid
234-343-4 11043-35-3
158 Sodium chromate
231-898-5 17771-11-3
160 Disodium tetraborate, anhydrous
215-540-4 1303-96-4
162 Potassium chromate
232-140-5 7789-00-6
Date of Inclusion: Mar 30, 2010
160 Disodium tetraborate, anhydrous
215-540-4 1303-96-4
162 Potassium chromate
232-140-5 7789-00-6

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<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>27</td>
<td>Acrylamide</td>
<td>201-173-7</td>
<td>79-06-1</td>
</tr>
<tr>
<td>26</td>
<td>Lead sulfoxochromate yellow (C.I. Pigment Yellow 34)</td>
<td>215-693-7</td>
<td>134-37-2</td>
</tr>
<tr>
<td>25</td>
<td>Lead chromate molybdate sulphate red (C.I. Pigment Red 104)</td>
<td>135-759-9</td>
<td>126-56-85-8</td>
</tr>
<tr>
<td>24</td>
<td>Anthracene oil</td>
<td>292-602-7</td>
<td>906-40-80-5</td>
</tr>
<tr>
<td>23</td>
<td>2,4-Dinitrotoluene</td>
<td>204-450-0</td>
<td>121-14-2</td>
</tr>
<tr>
<td>22</td>
<td>Anthracene oil, anthracene paste, anthracene fraction</td>
<td>295-275-9</td>
<td>91995-15-2</td>
</tr>
<tr>
<td>21</td>
<td>Anthracene oil, anthracene-lowe</td>
<td>292-604-8</td>
<td>906-40-82-7</td>
</tr>
<tr>
<td>20</td>
<td>Tris(2-chloroethyl)phosphate</td>
<td>204-118-5</td>
<td>115-96-8</td>
</tr>
<tr>
<td>19</td>
<td>Dibutyl phthalate</td>
<td>201-553-2</td>
<td>84-69-5</td>
</tr>
<tr>
<td>18</td>
<td>Lead chromate</td>
<td>211-646-0</td>
<td>775-81-6</td>
</tr>
<tr>
<td>17</td>
<td>Anthracene oil, anthracene paste, distn. lights</td>
<td>295-278-5</td>
<td>91995-17-4</td>
</tr>
<tr>
<td>16</td>
<td>Pitch, coal tar, high temp.</td>
<td>266-028-2</td>
<td>659-66-9</td>
</tr>
<tr>
<td>15</td>
<td>Anthracene oil, anthracene paste</td>
<td>292-604-8</td>
<td>906-40-82-7</td>
</tr>
<tr>
<td>14</td>
<td>Lead hydrogen arsenate</td>
<td>232-064-2</td>
<td>778-40-9</td>
</tr>
<tr>
<td>13</td>
<td>Benzyl butyl phthalate (BBP)</td>
<td>201-622-7</td>
<td>85-68-7</td>
</tr>
<tr>
<td>12</td>
<td>Bis (2-ethylhexyl)phthalate (DEHP)</td>
<td>204-211-0</td>
<td>117-81-7</td>
</tr>
<tr>
<td>11</td>
<td>5-Tert-Butyl-2,4,6-trinitro-m-xylene (musk xylene)</td>
<td>201-329-4</td>
<td>81-15-2</td>
</tr>
<tr>
<td>10</td>
<td>Diarsenic trioxide</td>
<td>215-481-4</td>
<td>132-73-3</td>
</tr>
<tr>
<td>9</td>
<td>Distrubutyltintoxide (DBT)</td>
<td>200-268-0</td>
<td>56-35-9</td>
</tr>
<tr>
<td>8</td>
<td>Triethyl arsenate</td>
<td>427-700-2</td>
<td>15606-95-8</td>
</tr>
<tr>
<td>7</td>
<td>Diarsenic pentaoxide</td>
<td>215-116-9</td>
<td>132-73-3</td>
</tr>
<tr>
<td>6</td>
<td>Sodium dichromate</td>
<td>234-190-3</td>
<td>105-88-01-9</td>
</tr>
<tr>
<td>5</td>
<td>Dibutyl phthalate (DBP)</td>
<td>201-557-4</td>
<td>84-74-2</td>
</tr>
<tr>
<td>4</td>
<td>4,4'-Diaminodiphenylmethane (MDA)</td>
<td>202-974-5</td>
<td>101-77-9</td>
</tr>
<tr>
<td>3</td>
<td>Alkanes, C10-13,chloro (Short Chain Chlorinated Paraffins)</td>
<td>287-476-5</td>
<td>855-35-8</td>
</tr>
<tr>
<td>2</td>
<td>Anthracene</td>
<td>204-371-1</td>
<td>120-12-7</td>
</tr>
</tbody>
</table>

### 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>