## Environmental Category & Description

<table>
<thead>
<tr>
<th>Details for:</th>
<th>SP487CT-L</th>
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</thead>
</table>

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

MaxLinear, Inc.
Quality and Reliability
Jan 20, 2024
Appendix A | RoHS with Exemption

<table>
<thead>
<tr>
<th>Exemption</th>
<th>Description</th>
</tr>
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<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., piezoelectric 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>
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<tr>
<td>Diisobutyl phthalate (DIBP)</td>
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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>
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<tr>
<td>Antimony (Sb 2O 3)</td>
<td>900 ppm</td>
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<tr>
<td></td>
<td>1500 ppm Total</td>
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Appendix D | REACH 235 - Regulation (EC) No 1907/2006 (Threshold Limit 1000ppm (0.1% w/w))

<table>
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<th>EC Number</th>
<th>CAS Number</th>
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Date of Inclusion: January 17, 2023

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Date of Inclusion: July 08, 2021

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Page 2 of 6
213 2,2-bis(bromomethyl)propane, 1,3-diol (BMP); 2,2-dimethylpropan-2-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DIBPA)
212 1,4-dioxane
211 Diocetyl phthalate, stearane, dioctyl, bis(coco acyloxy)deriv., and any other stearane, dioctyl, bis(fatty acyloxy)deriv. wherein C12 is the predominant carbon number of the fatty acyloxy moiety
210 Bis(2-methyhexyl)phthalate

**Date of Inclusion:** January, 2019

**EC Number:** 3296-90-0
**CAS Number:** 36483-57-5

**Date of Inclusion:** May 26, 2020

**EC Number:** 205-054-7
**CAS Number:** 143-24-8

**Date of Inclusion:** June 25, 2020

**EC Number:** 245-152-0
**CAS Number:** 22673-19-4

**Date of Inclusion:** June 27, 2020

**EC Number:** 203-772-9
**CAS Number:** 110-49-6

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

**EC Number:** 202-679-0
**CAS Number:** 206-44-0

**Date of Inclusion:** July 18, 2020

**EC Number:** 401-720-1
**CAS Number:** 6807-17-6

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

**EC Number:** 209-028-6
**CAS Number:** 54-55-3

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

**EC Number:** 209-080-0
**CAS Number:** 552-30-7

**Date of Inclusion:** Jan, 2019

**EC Number:** 208-764-9
**CAS Number:** 541-02-6

**Date of Inclusion:** Feb, 2019

**EC Number:** 201-581-9
**CAS Number:** 83-61-8

**Date of Inclusion:** May 2019

**EC Number:** 205-912-4
**CAS Number:** 206-44-0

**Date of Inclusion:** Jun 2019

**EC Number:** 205-916-6
**CAS Number:** 207-08-9

**Date of Inclusion:** Jun 2019

**EC Number:** 200-280-6
**CAS Number:** 556-67-2

**Date of Inclusion:** Jul 17, 2019

**EC Number:** 200-280-6
**CAS Number:** 516-37-8

**Date of Inclusion:** Jul 17, 2019

**EC Number:** 208-168-9
**CAS Number:** 7439-92-1

**Date of Inclusion:** Jul 17, 2019

**EC Number:** 208-762-8
**CAS Number:** 107-15-3

**Date of Inclusion:** Jul 2019

**EC Number:** 200-280-6
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**Date of Inclusion:** Jul 2019

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**CAS Number:** 107-15-3

**Date of Inclusion:** Jul 2020

**EC Number:** 203-772-9
**CAS Number:** 110-49-6

**Date of Inclusion:** Jan 15, 2019

**EC Number:** 208-168-9
**CAS Number:** 516-37-8

**Date of Inclusion:** Jan 15, 2019

**EC Number:** 208-168-9
**CAS Number:** 516-37-8

**Date of Inclusion:** Jan 15, 2019

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**Date of Inclusion:** Jan 15, 2020

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**Date of Inclusion:** Jan 15, 2020

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**Date of Inclusion:** Jan 15, 2021

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**CAS Number:** 7439-92-1

**Date of Inclusion:** Jan 15, 2021

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**CAS Number:** 7439-92-1

**Date of Inclusion:** Jan 15, 2021

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**Date of Inclusion:** Jan 15, 2021

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<th>Description</th>
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<td>271-235-2</td>
<td>776297-69-9</td>
<td>4-Nonylphenol, branched and linear, ethoxylated</td>
</tr>
<tr>
<td>214-604-9</td>
<td>92-67-1</td>
<td>Acetic acid, lead salt, dibasic</td>
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<tr>
<td>244-073-9</td>
<td>20155-23-1</td>
<td>Tris(pentabromophenyl) phosphate (DecaBDE)</td>
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<td>206-397-9</td>
<td>12626-81-2</td>
<td>N,N-dimethylformamide</td>
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<tr>
<td>233-245-9</td>
<td>95-53-4</td>
<td>Methyloxirane (Propylene oxide)</td>
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<td>234-853-7</td>
<td>776297-69-9</td>
<td>4-Nonylphenol, branched and linear, ethoxylated</td>
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<td>Silicic acid, lead salt</td>
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<td>n-Dodecylamine (Propionic acid)</td>
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<td>8784-25-8</td>
<td>Lead tetraisoutrate (dodecyltetrasulfonate)</td>
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<td>776297-69-9</td>
<td>776297-69-9</td>
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<td>Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane</td>
<td>247-148-4</td>
<td>134237-50-6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>221-695-9</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Anthracene</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)</td>
<td>287-476-5</td>
<td>85535-84-8</td>
</tr>
<tr>
<td>4</td>
<td>4,4'-Diaminodiphenylmethane (MDA)</td>
<td>204-371-1</td>
<td>120-12-7</td>
</tr>
<tr>
<td>5</td>
<td>Dibutyl phthalate (DBP)</td>
<td>201-527-4</td>
<td>83-15-2</td>
</tr>
<tr>
<td>6</td>
<td>Diarsenic trioxide</td>
<td>215-481-4</td>
<td>1327-53-3</td>
</tr>
<tr>
<td>7</td>
<td>Dibutyl phthalate (DBP)</td>
<td>201-622-7</td>
<td>85-68-7</td>
</tr>
<tr>
<td>8</td>
<td>Triethyl arsenate</td>
<td>427-700-2</td>
<td>15606-95-8</td>
</tr>
<tr>
<td>9</td>
<td>Distibutyltin(IV) oxide (TBTO)</td>
<td>300-268-0</td>
<td>56-35-9</td>
</tr>
<tr>
<td>10</td>
<td>Diarsenic trioxide</td>
<td>215-481-4</td>
<td>1327-53-3</td>
</tr>
<tr>
<td>11</td>
<td>S-tert-Butyl-2,6-trinitro-m-xylene (musk xylene)</td>
<td>201-527-4</td>
<td>83-15-2</td>
</tr>
<tr>
<td>12</td>
<td>Bis (2-ethylhexyl) phthalate (DEHP)</td>
<td>204-211-0</td>
<td>117-81-7</td>
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<tr>
<td>13</td>
<td>Benzyl butyl phthalate (BBP)</td>
<td>201-527-4</td>
<td>83-15-2</td>
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<tr>
<td>14</td>
<td>Lead hydrogen arsenate</td>
<td>232-062-2</td>
<td>7784-42-9</td>
</tr>
<tr>
<td>15</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>204-450-0</td>
<td>121-14-2</td>
</tr>
<tr>
<td>17</td>
<td>Lead chromate</td>
<td>292-603-7</td>
<td>90640-81-6</td>
</tr>
<tr>
<td>18</td>
<td>Lead chromate</td>
<td>292-604-8</td>
<td>90640-82-7</td>
</tr>
<tr>
<td>19</td>
<td>Anthracene oil, anthracene-low</td>
<td>295-275-9</td>
<td>91999-13-2</td>
</tr>
<tr>
<td>20</td>
<td>Tris(2-chloroethyl)phosphate</td>
<td>201-118-5</td>
<td>90640-80-5</td>
</tr>
<tr>
<td>21</td>
<td>Anthracene oil</td>
<td>295-278-5</td>
<td>91995-17-4</td>
</tr>
<tr>
<td>22</td>
<td>Anthracene oil, anthracene paste,anthracene fraction</td>
<td>292-604-8</td>
<td>90640-82-7</td>
</tr>
<tr>
<td>23</td>
<td>2,4-Dinitrotoluene</td>
<td>201-622-7</td>
<td>85-68-7</td>
</tr>
<tr>
<td>24</td>
<td>Anthracene, anthracene paste,anthracene fraction</td>
<td>292-604-8</td>
<td>90640-82-7</td>
</tr>
<tr>
<td>25</td>
<td>Lead sulphochromate yellow (C.I. Pigment Yellow 34)</td>
<td>215-693-7</td>
<td>1344-37-2</td>
</tr>
<tr>
<td>26</td>
<td>Lead chromate metalydate sulphate red (C.I. Pigment Red 104)</td>
<td>335-769-9</td>
<td>12626-85-4</td>
</tr>
<tr>
<td>27</td>
<td>Acrylamide</td>
<td>201-173-7</td>
<td>79-06-1</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 (2,4,6-6TBP)</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>1153-16-4</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>