# 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:

<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 &quot;7a&quot;, &quot;7c&quot;, or &quot;15&quot;, 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>N</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 &quot;Y&quot;, 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
Jan 09, 2024

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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

### Restricted Substance | Allowable Limit (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 (Cr+6) | 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) | 900 ppm

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

<table>
<thead>
<tr>
<th>Date of Inclusion</th>
<th>EC Number</th>
<th>CAS Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>June 14, 2023</td>
<td>235</td>
<td>278-355-8</td>
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<tr>
<td></td>
<td>234</td>
<td>201-247-9</td>
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<tr>
<td>January 17, 2023</td>
<td>233</td>
<td>228-098-2</td>
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<td>206-798-9</td>
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<td>243-518-4</td>
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<td>201-109-59</td>
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<tr>
<td>June 10, 2022</td>
<td>231</td>
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<td>229</td>
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<td>201-236-9</td>
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<td>225</td>
<td>253-692-3</td>
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<tr>
<td>November 17, 2022</td>
<td>224</td>
<td>213-103-2</td>
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<tr>
<td>July 08, 2021</td>
<td>223</td>
<td>401-850-9</td>
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<td>222</td>
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<td>221</td>
<td>213-934-0</td>
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<td>204-327-1</td>
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<td>201-856-5</td>
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<tr>
<td></td>
<td>214</td>
<td>201-025-1</td>
</tr>
</tbody>
</table>

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MaxLinear, Inc.
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Carlsbad, CA 92008
www.maxlinear.com

Date of Inclusion: January 19, 2021

EC Number  CAS Number
213 2,2-bis(bromomethyl)propane,1,3-diol (BMP); 2,2-dimethylpropane-1,3-diol (TMPA); 2,3-dibromo-1-propanol (2,3-DIBPA); 3296-90-0, 36483-57-5, 1512-92-5, 96-13-9

Date of Inclusion: June 25, 2020

EC Number  CAS Number
211 Dioctyl terephthalate 209-028-5

Date of Inclusion: January 16, 2020

EC Number  CAS Number
206 1-vinyldilaurate 110-012-0

Date of Inclusion: July 16, 2019

EC Number  CAS Number
210 Bis(2-methoxyethyl)ether 205-594-7

Date of Inclusion: June 27, 2018

EC Number  CAS Number
200 2-methoxyethyl acetate 203-772-9

Date of Inclusion: January 15, 2019

EC Number  CAS Number
197 1,7,7-trimethyl-3-phenylpentan-1-one 239-139-9

Date of Inclusion: January 15, 2018

EC Number  CAS Number
193 Benzylfluoranthene 205-916-4

Date of Inclusion: July 28, 2017

EC Number  CAS Number
191 Benzene-1,2,4-tricarboxylic acid 209-008-0

Date of Inclusion: Jan 15, 2018

EC Number  CAS Number
181 Benz(a)anthracene 200-280-6

Date of Inclusion: Jul 07, 2017

EC Number  CAS Number
174 Perfluorohexane-1-sulphonic acid and its salts (PFHxS) 206-486-8

Date of Inclusion: Dec 19, 2016

EC Number  CAS Number
172 4-heptylphenol, branched and linear -

Date of Inclusion: Jul 16, 2016

EC Number  CAS Number
169 Benzyl(phenylethyl)amine (BPEA) 200-028-5

Date of Inclusion: Dec 17, 2015

EC Number  CAS Number
168 1,3-propanesultone 214-317-9

Date of Inclusion: Jun 15, 2015

EC Number  CAS Number
162 1,2-benzene dicarboxylic acid, di-C6-10-alky esters; 1,2-benzene dicarboxylic acid, mixed decyl and hexyl esters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5) 272-013-1, 271-040-9

Date of Inclusion: Dec 17, 2014

EC Number  CAS Number
161 5-(sec-butyl)-2,4-dimethyloxazole-3-en-1-yl-5-methyl-1,3-dioxane [1], 5-(sec-butyl)-2,4-dimethyloxazole-3-en-1-yl-5-methyl-1,3-dioxane [2] (covering any of the individual stereoisomers of [1] and [2] or any combination thereof) -

MaxLinear, Inc.
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Carlsbad, CA 92008
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G0118-10 07/25/2023
6-Methoxy-m-toluidine (p-Cresidine)

[Phthalato(2-)]dioxotrilead

Acetic acid, lead salt, basic

Biphenyl-4-ylamine

Bis(pentabromophenyl) ether (DecaBDE)

Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2],

Dibutyltin dichloride (DBTC)

Diethyl sulphate

Diisopentylphthalate

Dimethyl sulphate

Dinoseb (6-sec-butyl-2,4-dinitrophenol)

Dioxobis(stearato)trilead

Fatty acids, C16-18, lead salts

Furan

Henicosafluoroundecanoic acid

Heptacosafluorotetradecanoic acid

Lead bis(tetrafluoroborate)

Lead cyanamidate

Lead dinitrate

Lead monoxide (lead oxide)

Lead oxide sulfate

Lead titanium trioxide

Lead titanium zirconium oxide

Methoxyacetic acid

Methyloxirane (Propylene oxide)

N,N-dimethylformamide

N-methylacetamide

o-aminoazotoluene

o-Toluidine

Orange lead (lead tetroxide)

Pentacosafluorotridecanoic acid

Pentalead tetraoxide sulphate

Pyrochlore, antimony lead yellow

Silicic acid (H2Si2O5), barium salt (1:1), lead-doped

Silicic acid, lead salt

Sulfurous acid, lead salt, dibasic

Tetraethyllead

Tetralead trioxide sulphate

Trilead dioxide phosphonate

Cadmium oxide

4-Nonylphenol, branched and linear, ethoxylated

Dipentyl phthalate (DPP)

Pentadecafluorooctanoic acid (PFOA)

Lead di(acetate)

Direct Red 28)

Disodium 3,3’-[1,1’-biphenyl]-4,4’-diylbis(azo)bis(4-aminonaphthalene-1-sulphonate) (C.I.

Trixylyl phosphate

Dihexyl phthalate

Cadmium oxide

Cadmium sulphate

Dissodium 3,3’-[1,1’-biphenyl]-4,4’-diylbis(azo)bis(4-amino-naphthalene-1-sulphonate) (C.I.

Lead diacetate

Cadmium oxide
### 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>