## Environmental Category & Description

<table>
<thead>
<tr>
<th>Environmental Category &amp; Description</th>
<th>Details for: XRT8001IDTR-F</th>
</tr>
</thead>
<tbody>
<tr>
<td>RoHS</td>
<td>Exempt</td>
</tr>
<tr>
<td>RoHS</td>
<td></td>
</tr>
<tr>
<td>Halogen Free</td>
<td></td>
</tr>
<tr>
<td>REACH</td>
<td></td>
</tr>
<tr>
<td>TSCA</td>
<td></td>
</tr>
</tbody>
</table>

MaxLinear, Inc.
Quality and Reliability
Jan 21, 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>Polychlorinated diphenyl ethers (PCDE)</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 B | REACH 235 - Regulation (EC) No 1907/2006 (Threshold Limit 1000 ppm (0.1% w/w))

<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)</td>
<td>900 ppm</td>
</tr>
</tbody>
</table>

Appendix C | Halogen Free
Maxlinear, Inc.

Our products are sold in accordance with the current version of MaxLinear’s standard Terms and Conditions of Sale. This statement is exclusively for our customers and respective competent authorities. It is not intended for

Date of Inclusion: Jun 16, 2014
\(202-177-1\)  \(214-604-9\)  \(238-009-9\)  \(236-086-3\)  

Cadmium sulphate  
151  
215-147-8  1306-2-6  

Date of Inclusion: Dec 16, 2013

Cadmium  
144  
231-152-8  7440-43-9  

Date of Inclusion: Dec 19, 2012

Cadmium chloride  
142  
201-058-1  301-04-2  

Date of Inclusion: Jun 20, 2013

Cadmium oxide  
139  
215-146-2  1306-19-0  

4-Nonylphenol, branched and linear, ethoxylated

4-Nonylphenol, branched and linear

6-methoxy-m-toluidine (p-cresidine)

Substances and all possible combinations of the cis- and trans-isomers [1] are covered by this

Diazene-1,2-dicarboxamide (C,C’-azodi(formamide))

Diethyl sulphate

Dioxobis(stearato)trilead

Henicosafluoroundecanoic acid

Heptacosafluorotetradecanoic acid

Hexahydromethylphthalic anhydride

Lead cyanamidate

Lead dinitrate

Lead monoxide (lead oxide)

Lead titanium trioxide

Lead titanium zirconium oxide

Methoxyacetic acid

o-Toluidine

Pyrochlore, antimony lead yellow

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

Silicic acid, lead salt

Tetraethyllead

o-Toluidine

Cadmium sulphide

Dissodium 4-amino-3-[4-[2,4-diaminophenyl]azo][1,1'-biphenyl]-4-y]azo]-5-hydroxy-6-(phenylazo)naphtalene-2,7-disulphonate (C.I. Direct Black 38)

Dihexyl phthalate

Imidazolidine-2-thione; (2-imidazoline-2-thiol)

(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)

Cadmium oxide

Cadmium sulphate

Sodium carbonate, calcium salt (1:1)

Sodium bicarbonate

Sodium nitrate

Sodium perborate, perboric acid, sodium salt

Sodium sulphate, ammonium salt (1:1)

Tetraethyloxysilane

Tetraethyloxysilane (TEOS)

Tetraethyloxysilane (TEOS)

Tetraethyloxysilane (TEOS)

Tetraethyllead

o-Toluidine

Cadmium sulphide

Dissodium 4-amino-3-[4-[2,4-diaminophenyl]azo][1,1'-biphenyl]-4-y]azo]-5-hydroxy-6-(phenylazo)naphtalene-2,7-disulphonate (C.I. Direct Black 38)

Dihexyl phthalate

Imidazolidine-2-thione; (2-imidazoline-2-thiol)

(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)

Cadmium oxide

Cadmium sulphate

Sodium carbonate, calcium salt (1:1)

Sodium bicarbonate

Sodium nitrate

Sodium perborate, perboric acid, sodium salt

Sodium sulphate, ammonium salt (1:1)

Tetraethyloxysilane

Tetraethyloxysilane (TEOS)

Tetraethyloxysilane (TEOS)

Tetraethyllead

o-Toluidine

Cadmium sulphide

Dissodium 4-amino-3-[4-[2,4-diaminophenyl]azo][1,1'-biphenyl]-4-y]azo]-5-hydroxy-6-(phenylazo)naphtalene-2,7-disulphonate (C.I. Direct Black 38)

Dihexyl phthalate

Imidazolidine-2-thione; (2-imidazoline-2-thiol)

(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)

Cadmium oxide

Cadmium sulphate

Sodium carbonate, calcium salt (1:1)

Sodium bicarbonate

Sodium nitrate

Sodium perborate, perboric acid, sodium salt

Sodium sulphate, ammonium salt (1:1)

Tetraethyloxysilane

Tetraethyloxysilane (TEOS)

Tetraethyloxysilane (TEOS)

Tetraethyllead

o-Toluidine

Cadmium sulphide

Dissodium 4-amino-3-[4-[2,4-diaminophenyl]azo][1,1'-biphenyl]-4-y]azo]-5-hydroxy-6-(phenylazo)naphtalene-2,7-disulphonate (C.I. Direct Black 38)

Dihexyl phthalate

Imidazolidine-2-thione; (2-imidazoline-2-thiol)

(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)
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<table>
<thead>
<tr>
<th>EC Number</th>
<th>CAS Number</th>
<th>Name</th>
</tr>
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<tbody>
<tr>
<td>202-027-5</td>
<td>202-918-9</td>
<td>Sodium chromate</td>
</tr>
<tr>
<td>202-959-2</td>
<td>202-959-2</td>
<td>Tetraboron disodium heptaoxide, hydrate</td>
</tr>
<tr>
<td>421-150-7</td>
<td>143860-04-2</td>
<td>3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine</td>
</tr>
<tr>
<td>203-440-5</td>
<td>106-94-5</td>
<td>1,2-Dethylethenyl methane</td>
</tr>
<tr>
<td>202-027-5</td>
<td>202-959-2</td>
<td>1,2-Benzenedicarboxylic acid, dipentylester, branched and linear</td>
</tr>
</tbody>
</table>

Date of Inclusion: Jun 18, 2012

- a.o-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))
- N,N,N’-Tetramethylenediamine (Michler’s base)
- 1,3,5-tris(2H,4H,6H)-triziane-2,4,6-(1H,3H,5H)-trione (β-TGIC)
- Diboron trioxide
- 2-Methoxyethanol

Date of Inclusion: Dec 19, 2011

- 2-Ethoxyethanol
- 2-Ethoxyethyl acetate
- 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine

Date of Inclusion: Jun 20, 2011

- 4,4’-methylenedi-o-toluidine
- 4,4’-oxydianiline and its salts

Date of Inclusion: Dec 15, 2010

- 1,2,3-trichloropropane
- 4,4’-methylenedi-o-toluidine

Date of Inclusion: Mar 30, 2010

- 2-Ethoxyethyl acid
- 2-Ethoxyethyl acetalde
- 2-Ethoxyethyl propionate
- 2-Ethoxyethyl acetate
<table>
<thead>
<tr>
<th>EC Number</th>
<th>CAS Number</th>
<th>Date of Inclusion: Jan 13, 2010</th>
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<tbody>
<tr>
<td>201-173-7</td>
<td>79-06-1</td>
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<table>
<thead>
<tr>
<th>EC Number</th>
<th>CAS Number</th>
<th>Date of Inclusion: Oct 28, 2008</th>
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<tbody>
<tr>
<td>201-064-2</td>
<td>7784-40-9</td>
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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>