# 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: 8204CB-F</th>
</tr>
</thead>
<tbody>
<tr>
<td>RoHS Exempt</td>
<td>N</td>
</tr>
<tr>
<td>RoHS</td>
<td>Y</td>
</tr>
<tr>
<td>Halogen Free</td>
<td>Y</td>
</tr>
<tr>
<td>REACH</td>
<td>Y</td>
</tr>
<tr>
<td>TSCA</td>
<td>Y</td>
</tr>
</tbody>
</table>

MaxLinear, Inc.
Quality and Reliability
Oct 19, 2023
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>
<th>Allowable Limit Total</th>
<th>EC Number</th>
<th>CAS Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cadmium (Cd)</td>
<td>100 ppm (0.01 weight %)</td>
<td>1000 ppm (0.10 weight %)</td>
<td>201-247-9</td>
<td>13063-97-4</td>
</tr>
<tr>
<td>Mercury (Hg)</td>
<td>1000 ppm (0.10 weight %)</td>
<td>1000 ppm (0.10 weight %)</td>
<td>7439-96-5</td>
<td>1314-43-2</td>
</tr>
<tr>
<td>Lead (Pb)</td>
<td>1000 ppm (0.10 weight %)</td>
<td>1000 ppm (0.10 weight %)</td>
<td>7439-96-5</td>
<td>1314-43-2</td>
</tr>
<tr>
<td>Hexavalent Chromium (Cr6+)</td>
<td>1000 ppm (0.10 weight %)</td>
<td>1000 ppm (0.10 weight %)</td>
<td>7440-44-7</td>
<td>7440-44-7</td>
</tr>
<tr>
<td>Polybrominated biphenyls (PBB)</td>
<td>1000 ppm (0.10 weight %)</td>
<td>1000 ppm (0.10 weight %)</td>
<td>201-290-5</td>
<td>1318-70-0</td>
</tr>
<tr>
<td>Polybrominated diphenyl ethers (PBDE)</td>
<td>1000 ppm (0.10 weight %)</td>
<td>1000 ppm (0.10 weight %)</td>
<td>201-290-5</td>
<td>1318-70-0</td>
</tr>
<tr>
<td>Bis(2-Ethylhexyl) phthalate (DEHP)</td>
<td>1000 ppm (0.10 weight %)</td>
<td>1000 ppm (0.10 weight %)</td>
<td>201-290-5</td>
<td>1318-70-0</td>
</tr>
<tr>
<td>Benzy1 butyl phthalate (BBP)</td>
<td>1000 ppm (0.10 weight %)</td>
<td>1000 ppm (0.10 weight %)</td>
<td>201-290-5</td>
<td>1318-70-0</td>
</tr>
<tr>
<td>Dibutyl phthalate (DBP)</td>
<td>1000 ppm (0.10 weight %)</td>
<td>1000 ppm (0.10 weight %)</td>
<td>201-290-5</td>
<td>1318-70-0</td>
</tr>
<tr>
<td>Diisobutyl phthalate (DIBP)</td>
<td>1000 ppm (0.10 weight %)</td>
<td>1000 ppm (0.10 weight %)</td>
<td>201-290-5</td>
<td>1318-70-0</td>
</tr>
</tbody>
</table>

Appendix C | Halogen Free

<table>
<thead>
<tr>
<th>Restricted Substance</th>
<th>Allowable Limit</th>
<th>Allowable Limit Total</th>
<th>EC Number</th>
<th>CAS Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bromine (Br)</td>
<td>900 ppm</td>
<td>1500 ppm</td>
<td>201-615-4</td>
<td>77-90-9</td>
</tr>
<tr>
<td>Chlorine (Cl)</td>
<td>900 ppm</td>
<td></td>
<td>224-208-8</td>
<td>77-05-5</td>
</tr>
<tr>
<td>Antimony (Sb)</td>
<td>900 ppm</td>
<td></td>
<td>210-819-6</td>
<td>74-40-9</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Description</th>
<th>EC Number</th>
<th>CAS Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages</td>
<td>473-390-7</td>
<td>13701-59-2</td>
</tr>
<tr>
<td>Hexavalent Chromium (Cr6+)</td>
<td>228-098-2</td>
<td>206-798-9</td>
</tr>
<tr>
<td>Polybrominated diphenyl ethers (PBDE)</td>
<td>243-518-4</td>
<td>201-236-9</td>
</tr>
<tr>
<td>Odor reduction: b. Odor reduction: b.</td>
<td>213-914-0</td>
<td>243-518-4</td>
</tr>
</tbody>
</table>

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221 1,4-dioxane 204-661-8 123-91-1

Date of Inclusion: January 19, 2021

EC Number CAS Number

211 Diocytlin dilaurate, stearane, diocyl, bis(octo acyloxy) derivs., and any other stearane, diocyl, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety - -

Date of Inclusion: March 26, 2010

EC Number CAS Number

210 Bis(2-methylhexyl)ether 205-944-7 143-24-8

Date of Inclusion: June 25, 2020

EC Number CAS Number

209 Dibutylphosphate, 2,4-dionato, O-Trin 245-152-0 22673-19-4

Date of Inclusion: January 16, 2020

EC Number CAS Number

208 Butyl 4-hydroxybenzoate 202-318-7 94-26-8

Date of Inclusion: January 16, 2020

EC Number CAS Number

207 2-methylimidazole 211-765-7 693-98-1

Date of Inclusion: January 16, 2020

EC Number CAS Number

206 2-vinylimidazole 1104-012-0 1072-63-5

Date of Inclusion: January 16, 2020

EC Number CAS Number

205 Perfluorobutane sulfonic acid (PFBS) and its salts - -

Date of Inclusion: January 20, 2015

EC Number CAS Number

204 Dimethylphthalate 276-092-2 71850-09-4

Date of Inclusion: July 18, 2019

EC Number CAS Number

203 2-methyl-4-methylthiophenol)-1-morpholinoprop-1-ene 400-600-6 71881-10-5

Date of Inclusion: June 8, 2015

EC Number CAS Number

202 2-benzyl-2-dimethylamino-4-morpholinobutyrophenone 404-360-3 119313-12-1

Date of Inclusion: January 12, 2020

EC Number CAS Number

201 2,3,3,3-tetrafluoro-2(heptafluoropropoxy)propanoic acid, its salts and its acyl halides - -

Date of Inclusion: June 15, 2015

EC Number CAS Number

200 2-methoxyethyl acetate 203-772-9 110-49-6

Date of Inclusion: January 15, 2019

EC Number CAS Number

199 4-tert-butylphenol 202-479-0 98-64-4

Date of Inclusion: July 18, 2019

EC Number CAS Number

198 Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP) - -

Date of Inclusion: June 12, 2015

EC Number CAS Number

197 1,7,7-trimethyl-3-(phenylmethylen) bicyclo[2.2.1]heptan-2-one 239-139-9 15087-24-8

Date of Inclusion: July 18, 2019

EC Number CAS Number

196 Pyrene 204-927-3 129-60-0

Date of Inclusion: July 18, 2019

EC Number CAS Number

195 Phenanthrene 201-581-5 83-61-8

Date of Inclusion: July 18, 2019

EC Number CAS Number

194 Fluoranthene 205-912-4 206-44-0

Date of Inclusion: July 18, 2019

EC Number CAS Number

193 Benzo(k)fluoranthene 205-916-6 207-08-9

Date of Inclusion: July 18, 2019

EC Number CAS Number

192 1,2-bis(4-hydroxyphenyl)-4-methylpentane 401-720-1 6807-77-6

Date of Inclusion: July 18, 2019

EC Number CAS Number

191 Benzene-1,2,4-tricarbonyl acid, 1,2-anhydride 209-008-0 552-30-7

Date of Inclusion: July 15, 2018

EC Number CAS Number

190 Benzocresylderivative - -

Date of Inclusion: July 18, 2019

EC Number CAS Number

Downloadable files with the same content are available through our website www.maxlinear.com.
161 | 2-(2H-benzotriazol-2-yl)4,6-diterpentylphenol (UV-328) | 247-384-8 | 25973-55-1
160 | 2-benzotriazolyl-2-(2H)-diterbutylphenol (UV-320) | 223-346-6 | 3846-71-7
159 | 2-ethylhexyl 10-ethyl-4,4-dicodiyl-7-oxo-8-oxa-3,5-dithia-4- stannatetradecanoate (DOTE) | 239-622-4 | 15571-58-1
158 | Cadmium Fluoride | 132-221-0 | 7750-73-6
157 | reaction mass of 2-ethylhexyl 10-ethyl-4,4-dicodiyl-7-oxo-8-oxa-3,5-dithia-4- stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[2-(2-ethylhexyl)oxy]-2-oxoethyl)(4- oxyethyl)-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE) | - | -
156 | Cadmium sulphate | 233-331-6 | 31119-93-6

Date of Inclusion: Jun 16, 2014
EC Number | CAS Number
--- | ---
151 | Cadmium sulphide | 215-147-8 | 1306-2-6
150 | Dioxidium 4-amino-3-[N-[2,4-diaminophenylazo][1,1'-biphenyl-4-y]azo]-5-hydoxy-6- (phenylazo)naphtalene-2,7-disulphonate (C.I. Direct Blue 38) | 217-710-3 | 1937-37-7
149 | Diphenyl phosphate | 246-677-8 | 15155-23-1
148 | Imidazolidine-2-thione; (2-imidazoline-2-thiol) | 202-506-9 | 96-45-7
147 | Tetracylate | 376-06-7 | 58194-66-8
146 | Dioxidium 3,3’-[1,1’-biphenyl]-4,4’-diylbis(zao)(bis[4-aminonaphtalene-1-sulphonate](C.I. Direct Red 28) | 209-358-4 | 573-58-6
145 | Lead di(p-acetate) | 206-104-4 | 301-04-2

Date of Inclusion: Dec 16, 2013
EC Number | CAS Number
--- | ---
151 | Cadmium | 231-152-8 | 7440-43-9
150 | Ammonium pentadecafluorooctanoate (APFO) | 223-320-4 | 3825-26-1
149 | Pentadecafluorooctanoic acid (PTFO) | 206-397-9 | 335-47-1
148 | Dipentyl phthalate (DPP) | 205-017-9 | 113-18-0
147 | 4-Nonylphenol, branched and linear, ethoxylated | 215-146-2 | 1306-19-0

Date of Inclusion: Dec 30, 2012
EC Number | CAS Number
--- | ---
138 | Trimethylene phosphonate | 235-252-2 | 12141-20-7
137 | Trimethylene carbonate | 215-290-6 | 1319-46-6
136 | Tris(4-fluorophenyl)carbinol | 206-203-2 | 307-55-1
135 | Tetralead trioxide sulphate | 235-380-9 | 12202-17-4
134 | Tetraethyl lead | 201-075-4 | 78-00-2
133 | Sodium carbonate | 233-331-6 | 75-59-6
132 | Silicic acid, lead salt, dibasic | 234-363-3 | 11120-22-2
131 | Silicic acid (H2Si2O5) | 232-271-5 | 6878-75-8
130 | Pyroclete, antimony lead yellow | 232-382-1 | 8011-0-0
129 | Pentalead tetraoxide sulphate | 235-067-7 | 12065-90-6
128 | Pentacosafluorooctcanoic acid | 276-745-2 | 72629-94-8
127 | Lead diacetate | 215-835-6 | 1314-41-6
126 | o-Toluidine | 202-429-0 | 95-54-3
125 | o-Aminoazotoluene | 202-592-1 | 97-56-3
124 | N,N-dimethylacetamide | 201-182-6 | 77629-69-9
123 | N,N-dimethylacetamide | 201-182-6 | 79-16-3
122 | N.N-dimethylformamide | 200-679-5 | 68-12-2
121 | Methylxirane (Propylene oxide) | 200-879-2 | 75-59-6
120 | Methylocyclohexyl | 210-894-6 | 923-45-4
119 | Lead titanium oxalate | 235-727-4 | 12266-81-2
118 | Lead titanium trioxide | 235-038-9 | 12060-00-3
117 | Lead oxide sulphate | 234-853-7 | 12036-76-9
116 | Lead monoxide (lead oxide) | 235-367-0 | 13117-78-8
115 | Lead diuranate | 231-245-9 | 10005-74-8
114 | Lead cyanide | 244-073-9 | 20817-86-9
113 | Lead(II)tetrafluoroborate) | 237-480-2 | 13814-96-5
112 | Hexahydroxymethylphthalic anhydride | 247-010-2 | 19438-60-9
111 | Heptacosapentfluorodecanoic acid | 206-503-4 | 375-06-7
110 | Hendecacosanfluorodecanoic acid | 218-165-4 | 2058-94-8
109 | Fusel | 203-723-7 | 110-00-9
108 | Fusel, C7-8, lead salts | 238-967-7 | 91031-62-8
107 | Dibenzyl(bis(stearamo)trifluoroborate | 235-702-8 | 12578-12-0
106 | Dinosob (b-sec-butyl-2,4-dinitrophenol) | 201-861-7 | 88-45-7
105 | Dimethyl sulphate | 201-058-1 | 77-78-1
104 | Disopentylphthalate | 210-083-4 | 609-59-5
103 | Diethyl sulphate | 200-589-6 | 64-67-5
102 | Dibutyltin dichloride (DBTC) | 211-670-0 | 683-18-1
101 | Dioctane-1,2-dicarboximide (C8-C10(formamide)) | 204-650-8 | 123-77-3
100 | Cyclohexane-1,2-dicarboximide (C6-C8(formamide)) | 204-650-8 | 123-77-3

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Disodium tetraborate, anhydrous
Sodium chromate
Boric acid
Ammonium dichromate
Tetraboron disodium heptaoxide, hydrate
Potassium dichromate
Chromium trioxide
2-Ethoxyethanol
Cobalt(II) sulphate
1,2,3-Trichloropropane
1-Methyl-2-pyrrolidone
Strontium chromate
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich
2,2'-dichloro-4,4'-methylenedianiline
Bis(2-methoxyethyl) ether
Aluminosilicate Refractory Ceramic Fibres
Trilead diarsenate
Lead styphnate
Arsenic acid
2-Methoxyaniline; o-Anisidine
Dichromium tris(chromate)
Calcium arsenate
1,2-dichloroethane
Lead diazide, Lead azide
Phenolphthalein
N,N-dimethylacetamide
1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-(1H,3H,5H)-trione (TGIC)
027-5) or Michler's base (EC No. 202-959-2)
4-[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)
1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)
α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 232-140-5)
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol (EC No. 203-977-3)
4,4'-methylenedi-o-toluidine
4,4'-oxydianiline and its salts
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated
4-Aminoazobenzene
<table>
<thead>
<tr>
<th></th>
<th>Acrylamide</th>
<th>Date of Inclusion: Jan 13, 2010</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>26</td>
<td>Lead sulfochromate yellow (C.I. Pigment Yellow 34)</td>
<td>201-693-7</td>
<td>1344-37-2</td>
<td></td>
</tr>
<tr>
<td>27</td>
<td>Lead chromate molybdate sulphate red (C.I. Pigment Red 104)</td>
<td>355-759-9</td>
<td>1265-85-8</td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>2,4-Dinitrotoluene</td>
<td>204-450-0</td>
<td>121-14-2</td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>Anthracene oil, anthracene paste, anthracene fraction</td>
<td>292-604-8</td>
<td>906-40-82-7</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>Tris(2-chloroethyl)phosphate</td>
<td>204-118-5</td>
<td>115-96-8</td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>Disobutyl phthalate</td>
<td>201-553-2</td>
<td>84-69-5</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>Lead chromate</td>
<td>234-146-0</td>
<td>775-8-1</td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>Anthracene oil, anthracene paste</td>
<td>292-603-2</td>
<td>906-40-81-6</td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>Pitch, coal tar, high temp.</td>
<td>266-028-2</td>
<td>65996-93-2</td>
<td></td>
</tr>
<tr>
<td>35</td>
<td>Anthracene oil, anthracene paste, distn. lights</td>
<td>295-278-5</td>
<td>91995-17-4</td>
<td></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>Pentachlorodiethylphosphine (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>