ALLIANCE MEMORY MDS REPORT

<table>
<tr><td colspan="2">Part Number:</td><td colspan="8">AS4C64M8D3L-12BCN / AS4C64M8D3L-12BIN</td></tr>
<tr><td colspan="2">Part Weight:</td><td colspan="8">140.36mg</td></tr>
<tr><th>No.</th><th>Part Name</th><th>Material Name</th><th>Component wt (mg)</th><th>Material Content (Element)</th><th>CAS Number</th><th>Element wt (%)</th><th>Element wt (mg)</th><th>wt % of Total unit wt</th><th>PPM</th></tr>
<tr><td rowspan="13">1</td><td rowspan="13">Substrate</td><td rowspan="13">HL-832NXA /AUS 308</td><td rowspan="13">30.535</td><td>Continuous Filament Fiber Glass</td><td>65997-17-3</td><td>27.51%</td><td>8.400</td><td>5.98%</td><td>275100</td></tr>
<tr><td>Cured thermosetting resin (including inorganic filler)</td><td>Trade secret</td><td>27.51%</td><td>8.400</td><td>5.98%</td><td>275100</td></tr>
<tr><td>Talc containing no asbestiform fibers</td><td>14807-96-6</td><td>0.39%</td><td>0.120</td><td>0.09%</td><td>3928</td></tr>
<tr><td>Morpholine derivative</td><td>Trade secret</td><td>0.39%</td><td>0.120</td><td>0.09%</td><td>3928</td></tr>
<tr><td>Barium sulfate</td><td>7727-43-7</td><td>4.32%</td><td>1.319</td><td>0.94%</td><td>43208</td></tr>
<tr><td>Silica, amorphous</td><td>7631-86-9</td><td>0.10%</td><td>0.030</td><td>0.02%</td><td>982</td></tr>
<tr><td>Dipropylene glycol monomethyl ether</td><td>34590-94-8</td><td>2.36%</td><td>0.720</td><td>0.51%</td><td>23568</td></tr>
<tr><td>Naphthalene</td><td>91-20-3</td><td>0.10%</td><td>0.030</td><td>0.02%</td><td>982</td></tr>
<tr><td>Epoxy resin A</td><td>Trade secret</td><td>1.28%</td><td>0.390</td><td>0.28%</td><td>12766</td></tr>
<tr><td>Epoxy resin B</td><td>85954-11-6</td><td>0.88%</td><td>0.270</td><td>0.19%</td><td>8838</td></tr>
<tr><td>Copper</td><td>7440-50-8</td><td>33.06%</td><td>10.095</td><td>7.19%</td><td>330600</td></tr>
<tr><td>Nickel</td><td>7440-02-0</td><td>1.64%</td><td>0.501</td><td>0.36%</td><td>16400</td></tr>
<tr><td>Gold</td><td>7440-57-5</td><td>0.46%</td><td>0.140</td><td>0.10%</td><td>4600</td></tr>
<tr><td rowspan="5">2</td><td rowspan="5">Mold compound</td><td rowspan="5">CEL-9120HF</td><td rowspan="5">74.874</td><td>Epoxy resin</td><td>Trade Secret</td><td>5.40%</td><td>4.043</td><td>2.88%</td><td>54000</td></tr>
<tr><td>Hardener</td><td>Trade secret</td><td>5.30%</td><td>3.968</td><td>2.83%</td><td>53000</td></tr>
<tr><td>Carbon Black</td><td>1333-86-4</td><td>0.20%</td><td>0.150</td><td>0.11%</td><td>2000</td></tr>
<tr><td>Amorphous silica</td><td>60676-86-0</td><td>86.65%</td><td>64.878</td><td>46.22%</td><td>866500</td></tr>
<tr><td>Crystalline silica</td><td>14808-60-7</td><td>2.45%</td><td>1.834</td><td>1.31%</td><td>24500</td></tr>
<tr><td rowspan="5">3</td><td rowspan="5">Epoxy</td><td rowspan="5">6202C</td><td rowspan="5">0.635</td><td>2-(2-Ethoxyethoxy)ethyl acetate</td><td>112-15-2</td><td>38.66%</td><td>0.245</td><td>0.17%</td><td>386600</td></tr>
<tr><td>Butadiene, acrylonitrile polymer, carboxy-terminated, polymer with bisphenol A and epichlorohydrin</td><td>68610-41-3</td><td>28.26%</td><td>0.179</td><td>0.13%</td><td>282600</td></tr>
<tr><td>Isodecyl alcohol,ethoxylated</td><td>61827-42-7</td><td>10.00%</td><td>0.063</td><td>0.05%</td><td>100000</td></tr>
<tr><td>Silica Filler</td><td>112926-00-8</td><td>22.43%</td><td>0.142</td><td>0.10%</td><td>224300</td></tr>
<tr><td>tert-butyl peroxyneodecanoate</td><td>26748-41-4</td><td>0.65%</td><td>0.004</td><td>0.00%</td><td>6500</td></tr>
<tr><td rowspan="3">4</td><td rowspan="3">Solder ball</td><td rowspan="3">SnAgCu</td><td rowspan="3">27.526</td><td>Tin</td><td>7440-31-5</td><td>96.50%</td><td>26.563</td><td>18.92%</td><td>965000</td></tr>
<tr><td>Silver</td><td>7440-22-4</td><td>3.00%</td><td>0.826</td><td>0.59%</td><td>30000</td></tr>
<tr><td>Copper</td><td>7440-50-8</td><td>0.50%</td><td>0.138</td><td>0.10%</td><td>5000</td></tr>
<tr><td rowspan="2">5</td><td rowspan="2">Gold wire</td><td rowspan="2">Au</td><td rowspan="2">0.188</td><td>Gold</td><td>7440-57-5</td><td>99.99%</td><td>0.188</td><td>0.13%</td><td>999900</td></tr>
<tr><td>Others</td><td>Trade Secret</td><td>0.01%</td><td>0.000</td><td>0.00%</td><td>100</td></tr>
<tr><td>6</td><td>Die</td><td>Chip</td><td>6.602</td><td>Silicon</td><td>7440-21-3</td><td>100.00%</td><td>6.602</td><td>4.70%</td><td>1000000</td></tr>
<tr><td></td><td></td><td></td><td>140.36</td><td></td><td></td><td>600.00%</td><td>140.360</td><td>100.00%</td><td>6000000</td></tr>
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