### Materials Declaration Form

**IPC**
- Form Type *: Distribute
- Version: 2

**Sectionals**
- Material Info
- Manufacturing Info

**Subsectionals**: A-D

**Company Name**: STMicroelectronics

**Company Unique ID**: NL 008751171B01

**Contact Name**: Refer to Supplier Comment section

**Contact Phone**: Refer to Supplier Comment section

**Contact Email**: Refer to Supplier Comment section

**Authorized Representative**: MDG MD CHAMPION

**Representative Title**: MDG MD CHAMPION

**Representative Phone**: Refer to Supplier Comment section

**Supplier Email**: Refer to Supplier Comment section

**Supplier Comment**: Online Technical Support - STMicroelectronics:

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**Legal Statement**
- Supplier Acceptance *: true
- Legal Declaration *: Standard

**Legal Statement**
Supplier certifies that it gathered the provided information and such information is true and correct to the best of its knowledge and belief, as of the date that Supplier completes this form. Supplier acknowledges that Company will rely on this certification in determining the compliance of its products. Company acknowledges that Supplier may have relied on information provided by others in completing this form, and that Supplier may not have independently verified such information. However, in situations where Supplier has not independently verified information provided by others, Supplier agrees that, at a minimum, its suppliers have provided certifications regarding their contributions to the part(s), and those certifications are at least as comprehensive as the certification in this paragraph. If the Company and the Supplier enter into a written agreement with respect to the identified part(s), the terms and conditions of that agreement, including any warranty rights and/or remedies provided as part of that agreement, will be the sole and exclusive source of the Supplier’s liability and the Company’s remedies for issues that arise regarding information the Supplier provides in this form.
<table>
<thead>
<tr>
<th>Product</th>
<th>Mfr Item Number</th>
<th>Mfr Item Name</th>
<th>Version</th>
<th>Mfr Site</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>STM32WB55CGU6</td>
<td>70MI*495XXXY</td>
<td>A</td>
<td>998Z</td>
<td>18-09-2018</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Amount</th>
<th>UoM</th>
<th>Unit type</th>
<th>ST ECOPACK Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>99.55</td>
<td>mg</td>
<td>Each</td>
<td>ECOPACK® 2</td>
</tr>
</tbody>
</table>

| . | Comment | ECOPACK® 2 is STMicroelectronics trade name for ROHS compliant device without Brominated and Chlorinated compound (900ppm) and without Antimony oxide flame retardant (in each organic material) |

### Manufacturing information

<table>
<thead>
<tr>
<th>J-STD-020 MSL Rating</th>
<th>Classification Temp</th>
<th>Nbr of Reflow Cycles</th>
<th>Terminal Plating</th>
<th>Terminal Base Alloy</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>260</td>
<td>3</td>
<td>Tin (Sn), immersion</td>
<td>Copper Alloy</td>
<td></td>
</tr>
</tbody>
</table>

**bulk Solder Termination**

- Not Applicable; if coating is used or other bulk termination

<table>
<thead>
<tr>
<th>Package Designator</th>
<th>Size</th>
<th>Nbr of instances</th>
<th>Shape</th>
</tr>
</thead>
<tbody>
<tr>
<td>QFN</td>
<td>7X7X0.55</td>
<td>48</td>
<td>No lead</td>
</tr>
</tbody>
</table>

| Comment | Package : A089 UFQFPN 7X7X0.55 48L 0.5 MM PITCH 8202210 |

Manufacturing information

<table>
<thead>
<tr>
<th>Exemption Id.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Product(s) meets EU RoHS requirement without any exemptions</td>
</tr>
<tr>
<td>2</td>
<td>Product(s) meets EU RoHS requirements except lead in solder and this usage may qualify under the lead in solder ‘7b’ exemption (other selected exemptions may apply)</td>
</tr>
<tr>
<td>3</td>
<td>Product(s) meets EU RoHS requirements by application of the selected exemption(s)</td>
</tr>
<tr>
<td>4</td>
<td>Product(s) does not meet EU RoHS requirements and is not under exemptions</td>
</tr>
</tbody>
</table>

### QueryList: REACH-27th June 2018

<table>
<thead>
<tr>
<th>CategoryLevel_Name</th>
<th>CategoryLevel_Threshold</th>
<th>amount in product (mg)</th>
<th>Application</th>
<th>ppm in product</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Product(s) does not contain REACH Substances Of Very High Concern above the limits per the definition within REACH</td>
<td>TRUE</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>


<table>
<thead>
<tr>
<th>Homogeneous Material</th>
<th>Material Group</th>
<th>Mass</th>
<th>UoM</th>
<th>Supplier</th>
<th>Substance</th>
<th>CAS</th>
<th>Exempt</th>
<th>Mass</th>
<th>UoM</th>
<th>Concentration in homogeneous material (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Die or dies M-011 Other inorganic materials</td>
<td>8.602</td>
<td>mg</td>
<td>supplier</td>
<td>Si (Silicon)</td>
<td>1332-21-1</td>
<td>0.014</td>
<td>7.941</td>
<td>mg</td>
<td>3255</td>
<td>923157</td>
</tr>
<tr>
<td>Die or dies M-011 Other inorganic materials</td>
<td>0.032</td>
<td>mg</td>
<td>supplier</td>
<td>Al (Aluminium)</td>
<td>7429-90-5</td>
<td>0.032</td>
<td>0.280</td>
<td>mg</td>
<td>3255</td>
<td>2813</td>
</tr>
<tr>
<td>Die or dies M-011 Other inorganic materials</td>
<td>0.280</td>
<td>mg</td>
<td>supplier</td>
<td>Cu (Copper)</td>
<td>7440-50-8</td>
<td>0.032</td>
<td>0.280</td>
<td>mg</td>
<td>3255</td>
<td>3213</td>
</tr>
<tr>
<td>Die or dies M-011 Other inorganic materials</td>
<td>0.091</td>
<td>mg</td>
<td>supplier</td>
<td>Ta (Tantalum)</td>
<td>7440-25-7</td>
<td>0.032</td>
<td>0.091</td>
<td>mg</td>
<td>3255</td>
<td>914</td>
</tr>
<tr>
<td>Die or dies M-011 Other inorganic materials</td>
<td>0.003</td>
<td>mg</td>
<td>supplier</td>
<td>Ti (Titanium)</td>
<td>7440-32-6</td>
<td>0.032</td>
<td>0.003</td>
<td>mg</td>
<td>3255</td>
<td>30</td>
</tr>
<tr>
<td>Die or dies M-011 Other inorganic materials</td>
<td>0.071</td>
<td>mg</td>
<td>supplier</td>
<td>SiN (Silicon Nitride)</td>
<td>12033-89-5</td>
<td>0.032</td>
<td>0.071</td>
<td>mg</td>
<td>3255</td>
<td>713</td>
</tr>
<tr>
<td>Die or dies M-011 Other inorganic materials</td>
<td>0.181</td>
<td>mg</td>
<td>supplier</td>
<td>SiO (Silicon Oxide)</td>
<td>7631-86-9</td>
<td>0.032</td>
<td>0.181</td>
<td>mg</td>
<td>3255</td>
<td>1813</td>
</tr>
<tr>
<td>Die Attach epoxy</td>
<td>2.763</td>
<td>mg</td>
<td>supplier</td>
<td>acrylic resin</td>
<td>Proprietary</td>
<td>0.231</td>
<td>2.763</td>
<td>mg</td>
<td>923157</td>
<td>79770</td>
</tr>
<tr>
<td>EMC_G770_Sumitomo</td>
<td>0.594</td>
<td>mg</td>
<td>supplier</td>
<td>epoxy resin A</td>
<td>Proprietary</td>
<td>0.231</td>
<td>0.594</td>
<td>mg</td>
<td>923157</td>
<td>150</td>
</tr>
<tr>
<td>EMC_G770_Sumitomo</td>
<td>0.594</td>
<td>mg</td>
<td>supplier</td>
<td>epoxy resin B</td>
<td>Proprietary</td>
<td>0.231</td>
<td>0.594</td>
<td>mg</td>
<td>923157</td>
<td>150</td>
</tr>
<tr>
<td>Glass Silica (Amorphous) A</td>
<td>21.918</td>
<td>mg</td>
<td>supplier</td>
<td>Glass Silica (Amorphous) A</td>
<td>7067-86-0</td>
<td>0.231</td>
<td>21.918</td>
<td>mg</td>
<td>923157</td>
<td>21856</td>
</tr>
<tr>
<td>Glass Silica (Amorphous) B</td>
<td>4.871</td>
<td>mg</td>
<td>supplier</td>
<td>Glass Silica (Amorphous) B</td>
<td>7067-86-0</td>
<td>0.231</td>
<td>4.871</td>
<td>mg</td>
<td>923157</td>
<td>48926</td>
</tr>
<tr>
<td>Glass</td>
<td>0.594</td>
<td>mg</td>
<td>supplier</td>
<td>glass hydrofluorocarbon</td>
<td>1216-86-9</td>
<td>0.231</td>
<td>0.594</td>
<td>mg</td>
<td>923157</td>
<td>5962</td>
</tr>
<tr>
<td>Metals</td>
<td>0.167</td>
<td>mg</td>
<td>supplier</td>
<td>carbon black</td>
<td>1333-86-4</td>
<td>0.231</td>
<td>0.167</td>
<td>mg</td>
<td>923157</td>
<td>1682</td>
</tr>
<tr>
<td>Bonding Wire</td>
<td>0.690</td>
<td>mg</td>
<td>supplier</td>
<td>gold</td>
<td>7440-57-5</td>
<td>0.231</td>
<td>0.690</td>
<td>mg</td>
<td>923157</td>
<td>6929</td>
</tr>
<tr>
<td>Anode Ball</td>
<td>3.693</td>
<td>mg</td>
<td>supplier</td>
<td>tin</td>
<td>7440-31-5</td>
<td>0.231</td>
<td>3.693</td>
<td>mg</td>
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<td>37094</td>
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<tr>
<td>Leadframe</td>
<td>53.878</td>
<td>mg</td>
<td>supplier</td>
<td>Nickel</td>
<td>7440-02-0</td>
<td>0.231</td>
<td>53.878</td>
<td>mg</td>
<td>923157</td>
<td>15893</td>
</tr>
</tbody>
</table>

Note: Substance present with less 0.001mg will not be declared in this document.