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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------|-----------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------|--------------------------------------------------------------|------|--------------|------------|-------|-------------------|--------------|-----------------------------------------------------------------------------|-------------------|--------------|---------------|--------------|--------------|------|-------------|------------|-------|--------------|-----------|-----------|-------|--------|-------------------|--------------|------|--|---------------------|-----------|------|--|---------------|----------|------|--------|-------|--|--|--------|
| <br><b>MICROCHIP</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                             |                                                                             | Termination Base Alloy:<br>Copper Alloy (Cu) |           |           | Package Homogeneous Materials                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |               | JEDEC 97<br>Product Marking<br>and/or Pkg.<br>Labeling<br>e3 |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                             |                                                                             |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Semiconductor Device Type: P (F3X) 018 PDIP .300in Matte Tin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                             |                                                                             |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Basic Substance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CAS Number                                                                  | "Contained In"<br>Sub-Component                                             | % Total<br>Weight                            | mg/part   | ppm       | 995.90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | (mg) Total | Mold Compound | % of Total Weight                                            | 79.8 |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Fused Silica                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 60676-86-0                                                                  | Mold Compound                                                               | 57.456                                       | 717.051   | 574,560   | <table><tr><td>Fused Silica</td><td>60676-86-0</td><td>72.00</td></tr><tr><td>Metal Hydro Oxide</td><td>Trade Secret</td><td>11.00</td></tr><tr><td>Epoxy Resin</td><td>Trade Secret</td><td>7.00</td></tr><tr><td>Phenol Resin</td><td>Trade Secret</td><td>7.00</td></tr><tr><td>SiO2</td><td>14808-60-7</td><td>2.50</td></tr><tr><td>Carbon Black</td><td>1333-86-4</td><td>0.50</td></tr><tr><td colspan="2">Total</td><td>100.00</td></tr></table>                                                                                                                                                                                   |            |               |                                                              |      | Fused Silica | 60676-86-0 | 72.00 | Metal Hydro Oxide | Trade Secret | 11.00                                                                       | Epoxy Resin       | Trade Secret | 7.00          | Phenol Resin | Trade Secret | 7.00 | SiO2        | 14808-60-7 | 2.50  | Carbon Black | 1333-86-4 | 0.50      | Total |        | 100.00            |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Fused Silica                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 60676-86-0                                                                  | 72.00                                                                       |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Metal Hydro Oxide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Trade Secret                                                                | 11.00                                                                       |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Epoxy Resin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Trade Secret                                                                | 7.00                                                                        |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Phenol Resin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Trade Secret                                                                | 7.00                                                                        |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| SiO2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 14808-60-7                                                                  | 2.50                                                                        |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Carbon Black                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1333-86-4                                                                   | 0.50                                                                        |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                             | 100.00                                                                      |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Metal Hydro Oxide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Trade Secret                                                                | Mold Compound                                                               | 8.778                                        | 109.549   | 87,780    | <table><tr><td colspan="3">131.04</td><td>10.5</td></tr><tr><td>(mg) Total</td><td>Lead Frame</td><td>% of Total Weight</td><td></td></tr><tr><td>Copper</td><td>7440-50-8</td><td>95.54</td><td></td></tr><tr><td>Iron</td><td>7439-89-6</td><td>2.35</td><td></td></tr><tr><td>Silver</td><td>7440-22-4</td><td>1.91</td><td></td></tr><tr><td>Zinc</td><td>7440-66-6</td><td>0.13</td><td></td></tr><tr><td>Phosphorous</td><td>7723-14-0</td><td>0.08</td><td></td></tr><tr><td colspan="3">Total</td><td>100.00</td></tr></table>                                                                                                     |            |               |                                                              |      | 131.04       |            |       | 10.5              | (mg) Total   | Lead Frame                                                                  | % of Total Weight |              | Copper        | 7440-50-8    | 95.54        |      | Iron        | 7439-89-6  | 2.35  |              | Silver    | 7440-22-4 | 1.91  |        | Zinc              | 7440-66-6    | 0.13 |  | Phosphorous         | 7723-14-0 | 0.08 |  | Total         |          |      | 100.00 |       |  |  |        |
| 131.04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                             |                                                                             | 10.5                                         |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| (mg) Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Lead Frame                                                                  | % of Total Weight                                                           |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Copper                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7440-50-8                                                                   | 95.54                                                                       |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Iron                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 7439-89-6                                                                   | 2.35                                                                        |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Silver                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7440-22-4                                                                   | 1.91                                                                        |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Zinc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 7440-66-6                                                                   | 0.13                                                                        |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Phosphorous                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 7723-14-0                                                                   | 0.08                                                                        |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                             |                                                                             | 100.00                                       |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Epoxy Resin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Trade Secret                                                                | Mold Compound                                                               | 5.586                                        | 69.713    | 55,860    | <table><tr><td colspan="3">9.36</td><td>0.75</td></tr><tr><td>(mg) Total</td><td>Die Attach</td><td>% of Total Weight</td><td></td></tr><tr><td>Silver</td><td>7440-22-4</td><td>73.36</td><td></td></tr><tr><td>Epoxy Resin</td><td>9003-36-5</td><td>14.67</td><td></td></tr><tr><td>Diluent</td><td>3101-60-8</td><td>7.33</td><td></td></tr><tr><td>Phenolic hardener</td><td>Trade secret</td><td>2.93</td><td></td></tr><tr><td>Amine type hardener</td><td>827-43-0</td><td>1.47</td><td></td></tr><tr><td>Dicyandiamide</td><td>461-58-5</td><td>0.24</td><td></td></tr><tr><td colspan="3">Total</td><td>100.00</td></tr></table> |            |               |                                                              |      | 9.36         |            |       | 0.75              | (mg) Total   | Die Attach                                                                  | % of Total Weight |              | Silver        | 7440-22-4    | 73.36        |      | Epoxy Resin | 9003-36-5  | 14.67 |              | Diluent   | 3101-60-8 | 7.33  |        | Phenolic hardener | Trade secret | 2.93 |  | Amine type hardener | 827-43-0  | 1.47 |  | Dicyandiamide | 461-58-5 | 0.24 |        | Total |  |  | 100.00 |
| 9.36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                             |                                                                             | 0.75                                         |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| (mg) Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Die Attach                                                                  | % of Total Weight                                                           |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Silver                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7440-22-4                                                                   | 73.36                                                                       |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Epoxy Resin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 9003-36-5                                                                   | 14.67                                                                       |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Diluent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3101-60-8                                                                   | 7.33                                                                        |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Phenolic hardener                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Trade secret                                                                | 2.93                                                                        |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Amine type hardener                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 827-43-0                                                                    | 1.47                                                                        |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Dicyandiamide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 461-58-5                                                                    | 0.24                                                                        |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                             |                                                                             | 100.00                                       |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Phenol Resin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Trade Secret                                                                | Mold Compound                                                               | 5.586                                        | 69.713    | 55,860    | <table><tr><td colspan="3">93.60</td><td>7.5</td></tr><tr><td>Total (mg)</td><td>Chip (Die)</td><td>% of Total Weight</td><td></td></tr><tr><td>Doped Silicon</td><td>7440-21-3</td><td>100.00</td><td></td></tr><tr><td colspan="3">Total</td><td>100.00</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                |            |               |                                                              |      | 93.60        |            |       | 7.5               | Total (mg)   | Chip (Die)                                                                  | % of Total Weight |              | Doped Silicon | 7440-21-3    | 100.00       |      | Total       |            |       | 100.00       |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| 93.60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                             |                                                                             | 7.5                                          |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Total (mg)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Chip (Die)                                                                  | % of Total Weight                                                           |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Doped Silicon                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7440-21-3                                                                   | 100.00                                                                      |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                             |                                                                             | 100.00                                       |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| SiO2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 14808-60-7                                                                  | Mold Compound                                                               | 1.995                                        | 24.898    | 19,950    | <table><tr><td colspan="3">2.50</td><td>0.2</td></tr><tr><td>(mg) Total</td><td>Wire Bond Copper palladium coated (CuPd)</td><td>% of Total Weight</td><td></td></tr><tr><td>Copper</td><td>7440-50-8</td><td>98.25</td><td></td></tr><tr><td>Palladium</td><td>7440-05-3</td><td>1.75</td><td></td></tr><tr><td colspan="3">Total</td><td>100.00</td></tr></table>                                                                                                                                                                                                                                                                        |            |               |                                                              |      | 2.50         |            |       | 0.2               | (mg) Total   | Wire Bond Copper palladium coated (CuPd)                                    | % of Total Weight |              | Copper        | 7440-50-8    | 98.25        |      | Palladium   | 7440-05-3  | 1.75  |              | Total     |           |       | 100.00 |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| 2.50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                             |                                                                             | 0.2                                          |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| (mg) Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Wire Bond Copper palladium coated (CuPd)                                    | % of Total Weight                                                           |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Copper                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7440-50-8                                                                   | 98.25                                                                       |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Palladium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 7440-05-3                                                                   | 1.75                                                                        |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                             |                                                                             | 100.00                                       |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Carbon Black                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1333-86-4                                                                   | Mold Compound                                                               | 0.399                                        | 4.980     | 3,990     | <table><tr><td colspan="3">15.60</td><td>1.25</td></tr><tr><td>(mg) Total</td><td>Plating on external leads (pins) - Matte Tin / annealed at 150°C for 1 hour</td><td>% of Total Weight</td><td></td></tr><tr><td>Tin</td><td>7440-31-5</td><td>100.00</td><td></td></tr><tr><td colspan="3">Total</td><td>100.00</td></tr></table>                                                                                                                                                                                                                                                                                                        |            |               |                                                              |      | 15.60        |            |       | 1.25              | (mg) Total   | Plating on external leads (pins) - Matte Tin / annealed at 150°C for 1 hour | % of Total Weight |              | Tin           | 7440-31-5    | 100.00       |      | Total       |            |       | 100.00       |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| 15.60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                             |                                                                             | 1.25                                         |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| (mg) Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Plating on external leads (pins) - Matte Tin / annealed at 150°C for 1 hour | % of Total Weight                                                           |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Tin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 7440-31-5                                                                   | 100.00                                                                      |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                             |                                                                             | 100.00                                       |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Copper                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7440-50-8                                                                   | Lead Frame                                                                  | 10.031                                       | 125.192   | 100,314   | <table><tr><td colspan="3">1,248.000</td><td>100.000</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |               |                                                              |      | 1,248.000    |            |       | 100.000           |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| 1,248.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                             |                                                                             | 100.000                                      |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Iron                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 7439-89-6                                                                   | Lead Frame                                                                  | 0.247                                        | 3.079     | 2,468     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Silver                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7440-22-4                                                                   | Lead Frame                                                                  | 0.200                                        | 2.496     | 2,000     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Zinc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 7440-66-6                                                                   | Lead Frame                                                                  | 0.013                                        | 0.164     | 131       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Phosphorous                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 7723-14-0                                                                   | Lead Frame                                                                  | 0.009                                        | 0.108     | 87        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Silver                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7440-22-4                                                                   | Die Attach                                                                  | 0.550                                        | 6.866     | 5,502     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Epoxy Resin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 9003-36-5                                                                   | Die Attach                                                                  | 0.110                                        | 1.373     | 1,100     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Diluent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3101-60-8                                                                   | Die Attach                                                                  | 0.055                                        | 0.686     | 550       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Phenolic hardener                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Trade secret                                                                | Die Attach                                                                  | 0.022                                        | 0.274     | 220       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Amine type hardener                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 827-43-0                                                                    | Die Attach                                                                  | 0.011                                        | 0.138     | 110       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Dicyandiamide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 461-58-5                                                                    | Die Attach                                                                  | 0.002                                        | 0.022     | 18        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Silicon                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 7440-21-3                                                                   | Chip (Die)                                                                  | 7.500                                        | 93.600    | 75,000    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Copper                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7440-50-8                                                                   | Wire Bond Copper palladium coated (CuPd)                                    | 0.197                                        | 2.452     | 1,965     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Palladium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 7440-05-3                                                                   | Wire Bond Copper palladium coated (CuPd)                                    | 0.004                                        | 0.044     | 35        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Tin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 7440-31-5                                                                   | Plating on external leads (pins) - Matte Tin / annealed at 150°C for 1 hour | 1.250                                        | 15.600    | 12,500    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| TOTALS:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                             |                                                                             | 100.000                                      | 1,248.000 | 1,000,000 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| 1.2480 g Total Mass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                             |                                                                             |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| This semiconductor device and its homogenous materials comply with EU Directives: 2002/95/EC (27 January 2003) & Directive 2011/65/EU (08 June 2011) and 2015/863/EU (31 March 2015) and 2002/53/EC (End-of-Life Vehicles (ELV) without exemption (zero))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                             |                                                                             |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Compliance with the above EU Directives has been verified via internal design controls, supplier declarations, and /or analytical test data.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                             |                                                                             |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| If a chemical substance is absent from the list above, the chemical substance is NOT an intentional ingredient in the semiconductor device and, to the best of Microchip Technology Incorporated's knowledge and belief as of the date of this document, there is no credible reason to believe that the unavoidable impurity concentration of the chemical substance, if any, is not below the threshold of regulatory concern for any regulatory scheme world-wide.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                             |                                                                             |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| Molding compounds used by Microchip meet the UL94 V0 flammability standard for plastics. You can access the UL iQTM family of databases to obtain a test report at <a href="http://ul.com/global/eng/pages/offerings/industries/chemicals/plastics/">http://ul.com/global/eng/pages/offerings/industries/chemicals/plastics/</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                             |                                                                             |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
| The protective "tubes" in which the specific product is shipped are made from polyvinyl chloride (PVC) plastic. "Window envelopes" used to hold the packing slip on the outer box and certain "reels" may be made from PVC plastic.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                             |                                                                             |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
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| Assembled package referenced above is EU REACH compliant based on the latest SVHC candidate list of ECHA which can be found at <a href="http://echa.europa.eu/web/guest/candidate-list-table">http://echa.europa.eu/web/guest/candidate-list-table</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                             |                                                                             |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                             |                                                                             |                                              |           |           | 1,248.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 100.000    |               |                                                              |      |              |            |       |                   |              |                                                                             |                   |              |               |              |              |      |             |            |       |              |           |           |       |        |                   |              |      |  |                     |           |      |  |               |          |      |        |       |  |  |        |