

## MDS Material Safety Data Sheet

| Material Content Declaration  |                                  |                   |                     |                 |                     |
|-------------------------------|----------------------------------|-------------------|---------------------|-----------------|---------------------|
| Material name                 | Substance name e.g. Copper (Cu). | CAS no., if known | Substance mass (mg) | % OF Weight (%) | ppm Of Total Weight |
| <b>Lead Wire<br/>38.43%</b>   | Copper (Cu)                      | 7440-50-8         | 51.528              | 99.977          | 384,221.9           |
|                               | Phosphorus (P)                   | 7723-14-0         | 0.0005              | 0.0010          | 3.7                 |
|                               | Arsenic (As)                     | 7440-38-2         | 0.0005              | 0.0010          | 3.7                 |
|                               | Tin (Sn)                         | 7440-31-5         | 0.0005              | 0.0010          | 3.7                 |
|                               | Oxygen (O)                       | 7782-44-7         | 0.0003              | 0.0005          | 2.2                 |
|                               | Sulfur (S)                       | 7704-34-9         | 0.0070              | 0.0130          | 52.2                |
|                               | Iron (Fe)                        | 7439-89-6         | 0.0003              | 0.0007          | 2.2                 |
|                               | Nickel (Ni)                      | 7440-02-0         | 0.0001              | 0.0003          | 0.7                 |
|                               | Bismuth (Bi)                     | 7440-69-9         | 0.0008              | 0.0016          | 6.0                 |
|                               | Antimony (Sb)                    | 1309-64-4         | 0.0008              | 0.0016          | 6.0                 |
|                               | Lead (Pb)                        | 7439-92-1         | 0.0003              | 0.0005          | 2.2                 |
|                               | Zinc (Zn)                        | 7440-66-6         | 0.0009              | 0.0018          | 6.7                 |
|                               | <b>Total</b>                     |                   | <b>51.54</b>        |                 |                     |
| <b>Solder Wafer<br/>3.27%</b> | Lead (Pb)                        | 7439-92-1         | 4.06                | 92.50           | 30,273.7            |
|                               | Tin (Sn)                         | 7440-31-5         | 0.22                | 5.00            | 1,640.4             |
|                               | Silver (Ag)                      | 7440-22-4         | 0.11                | 2.50            | 820.2               |
|                               | <b>Total</b>                     |                   | <b>4.39</b>         |                 |                     |
| <b>Chip<br/>2.36%</b>         | Silicon (Si)                     | 7440-21-3         | 3.01                | 95.40           | 22,444.3            |
|                               | Lead (Pb)                        | 7439-92-1         | 0.15                | 4.60            | 1,118.5             |
|                               | <b>Total</b>                     |                   | <b>3.16</b>         |                 |                     |
| <b>Molding<br/>55.68%</b>     | Epoxy                            | 38891-59-7        | 74.67               | 100.00          | 556,781.7           |
|                               | <b>Total</b>                     |                   | <b>74.67</b>        |                 |                     |
| <b>Plating<br/>0.26%</b>      | Tin (Sn)                         | 7440-31-5         | 0.35                | 100.00          | 2,609.8             |
|                               | <b>Total</b>                     |                   | <b>0.35</b>         |                 |                     |
|                               | <b>Total mass (mg)</b>           |                   | <b>134.11</b>       |                 |                     |