



## BR3 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</b><br><b>19.10%</b>   | Copper (Cu)                      | 7440-50-8         | 455.82              | 99.98           | 190,886.25          |
|                                     | Phosphorus (P)                   | 7723-14-0         | 0.005               | 0.0011          | 2.1                 |
|                                     | Arsenic (As)                     | 7440-38-2         | 0.005               | 0.0011          | 2.1                 |
|                                     | Tin (Sn)                         | 7440-31-5         | 0.005               | 0.0011          | 2.1                 |
|                                     | Oxygen (O)                       | 7782-44-7         | 0.002               | 0.0004          | 0.8                 |
|                                     | Sulfur (S)                       | 7704-34-9         | 0.055               | 0.0121          | 23.0                |
|                                     | Iron (Fe)                        | 7439-89-6         | 0.003               | 0.0007          | 1.3                 |
|                                     | Nickel (Ni)                      | 7440-02-0         | 0.001               | 0.0002          | 0.4                 |
|                                     | Bismuth (Bi)                     | 7440-69-9         | 0.009               | 0.0020          | 3.8                 |
|                                     | Antimony (Sb)                    | 1309-64-4         | 0.009               | 0.0020          | 3.8                 |
|                                     | Lead (Pb)                        | 7439-92-1         | 0.002               | 0.0004          | 0.8                 |
|                                     | Zinc (Zn)                        | 7440-66-6         | 0.001               | 0.0002          | 0.4                 |
|                                     | <b>Total</b>                     |                   | <b>455.92</b>       |                 |                     |
| <b>Solder Wafer</b><br><b>0.33%</b> | Lead (Pb)                        | 7439-92-1         | 7.40                | 92.50           | 3,098.9             |
|                                     | Tin (Sn)                         | 7440-31-5         | 0.40                | 5.00            | 167.5               |
|                                     | Silver (Ag)                      | 7440-22-4         | 0.20                | 2.50            | 83.8                |
|                                     | <b>Total</b>                     |                   | <b>8.00</b>         |                 |                     |
| <b>Chip</b><br><b>0.33%</b>         | Silicon (Si)                     | 7440-21-3         | 7.63                | 95.40           | 3,196.1             |
|                                     | Lead (Pb)                        | 7439-92-1         | 0.37                | 4.60            | 154.1               |
|                                     | <b>Total</b>                     |                   | <b>8.00</b>         |                 |                     |
| <b>Case</b><br><b>28.37%</b>        | Epoxy                            | 38891-59-7        | 677.40              | 100.00          | 283,676.7           |
|                                     | <b>Total</b>                     |                   | <b>677.40</b>       |                 |                     |
| <b>Potting</b><br><b>51.64%</b>     | Epoxy                            | 38891-59-7        | 1,233.06            | 100.00          | 516,371.9           |
|                                     | <b>Total</b>                     |                   | <b>1,233.06</b>     |                 |                     |
| <b>Plating</b><br><b>0.23%</b>      | Tin (Sn)                         | 7440-31-5         | 5.55                | 100.00          | 2,324.2             |
|                                     | <b>Total</b>                     |                   | <b>5.55</b>         |                 |                     |
|                                     | <b>Total mass (mg)</b>           |                   | <b>2387.93</b>      |                 |                     |