**6138 BOM-style material declaration. BI Technologies Corporation** **12/13/2010**

No content here is banned per E.U. R.o.H.S.. Average mass of 6138 potentiometer is 18 grams each. Prepared by Eric Arnold (714) 447-2565
Weights in table above 1 milligram rounded to the nearest mg. Values less than 1 milligram given in scientific notation.

| Sub-component | Material | % of total mass | Substance name | CAS # | Substance Weight (grams) | Special classification |
|---|---|---|---|---|---|---|
| Housing | Zn alloy | 40.3% | Zn | 7440-66-6 | 6.976 | |
| | | | Al | 7429-90-5 | 0.291 | |
| | | | Cd | 7440-43-9 | 3.64E-05 | 5 ppm concentration, below E.U. RoHS restriction threshold |
| | | | Cu | 7440-50-8 | 7.27E-04 | |
| | | | Fe | 7439-89-6 | 0.002 | |
| | | | Mg | 7439-95-4 | 7.27E-04 | |
| | | | Ni | 7440-02-0 | 7.27E-04 | |
| | | | Pb | 7439-92-1 | 7.27E-05 | 10 ppm concentration, below E.U. RoHS restriction threshold |
| | | | Sn | 7440-31-5 | 1.45E-05 | |
| | bearing | 5.6% | CDA 932 or C932000 bronze | unknown | 1.015 | non-hazardous, 7% Pb in bronze bearing is exempt from E.U. RoHS |
| | bearing lubricant | 0.003% | trade secret | n/a | 5.00E-04 | non-hazardous |
| | marking | 0.002% | C | 7440-44-0 | 1.02E-04 | |
| | | | cobalt napthenate | 61789-51-3 | 5.10E-06 | |
| | | | cobalt neodecanonate | 27253-31-2 | 5.10E-06 | |
| | | | Hexahydro-1,3-isobenzofurandione | 85-42-7 | 2.55E-05 | |
| | | | trade secret | n/a | 1.63E-04 | non-hazardous |
| | Zn oxide coating | n/a | trade secret black oxide | n/a | trace (unspecified) | non-hazardous |
| Rotor | PA 66 plastic blend | 5.4% | polyhexamethylene adipamide | 32131-17-2 | 0.628 | |
| | | | fiberglass | 65997-17-3 | 0.319 | |
| | | | trade secret | n/a | 0.019 | non-hazardous |
| Shaft | stainless steel | 25.7% | Fe | 7439-89-6 | 3.346 | |
| | | | C | 7440-44-0 | 0.005 | |
| | | | Cr (0) | 7440-47-3 | 0.834 | |
| | | | Mn | 7439-96-5 | 0.046 | |
| | | | Ni | 7440-02-0 | 0.371 | |
| | | | P | 7723-14-0 | 0.005 | |
| | | | S | 7704-34-9 | 0.005 | |
| | | | Si | 7440-21-3 | 0.023 | |
| Contact | Cu alloy | 0.1% | Cu | 7440-50-8 | 0.008 | |
| | | | Sn | 7440-31-5 | 8.93E-04 | |
| | | | Ni | 7440-02-0 | 1.52E-03 | |
| | Pd alloy | 0.01% | Pd | 7440-05-3 | 5.46E-04 | |
| | | | Ag | 7440-22-4 | 4.71E-04 | |
| | | | Pt | 7440-06-4 | 1.24E-05 | |
| | | | Cu | 7440-50-8 | 8.79E-04 | |
| | | | Ni | 7440-02-0 | 1.69E-04 | |
| Terminals | OFHC copper | 1.4% | Cu | 7440-50-8 | 0.250 | |
| | Sn plating | 0.01% | Sn | 7440-31-5 | 0.002 | |
| Element | alumina | 13.3% | Al2O3 | 1344-28-1 | 2.295 | |
| | | | CaO | 1305-78-8 | 0.012 | |
| | | | FeO2 | 1345-25-1 | 0.012 | |
| | | | MgO | 1309-48-4 | 0.012 | |
| | | | MnO2 | 1313-13-9 | 0.024 | |
| | | | SiO2 | 7631-86-9 | 0.024 | |
| | | | TiO2 | 13463-67-7 | 0.012 | |
| | Marking ink | 0.02% | DAIP resin | 1087-21-4 | 0.003 | |
| | | | carbon black | 1333-86-4 | 1.80E-04 | |
| | | | SiO2 | 7631-86-9 | 2.48E-04 | |
| | Lubricant | 0.001% | trade secret | n/a | 2.00E-04 | non-hazardous |
| | Conductor | 0.02% | Ag | 7440-22-4 | 0.002 | |
| | | | Bi03 | 1304-76-3 | 1.19E-04 | bismuth compound |
| | | | NiO | 1313-99-1 | 4.08E-05 | |
| | | | nonylphenol ethoxylate | 68412-53-3 | 4.08E-05 | |
| | | | Pd | 7440-05-3 | 7.98E-04 | |
| | | | trade secret | n/a | 3.19E-04 | non-hazardous |
| | Resistor | 0.02% | DAIP resin | 1087-21-4 | 0.002 | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | C | 7440-44-0 | 9.14E-04 | |
| | | | 3-(trimethoxysilyl) propyl methacrylate | 2530-85-0 | 2.75E-05 | |
| | | | SiO2 | 7631-86-9 | 1.54E-05 | |
| | | | t-butyl peroxybenzoate | 614-45-9 | 5.20E-05 | |
| | | | trade secret | n/a | 6.99E-05 | non-hazardous |
| Lockwasher | spring steel | 1.7% | Fe | 7439-89-6 | 0.294 | |
| | | | C | 7440-44-0 | 0.001 | |
| | | | Mn | 7439-96-5 | 0.002 | |
| | | | P | 7723-14-0 | 8.93E-05 | |
| | | | S | 7704-34-9 | 8.93E-05 | |
| | Ni plating | 0.02% | Ni | 7440-02-0 | 0.004 | |
| Nut | brass | 6.5% | Cu | 7440-50-8 | 0.726 | |
| | | | Zn | 7440-66-6 | 0.417 | |
| | | | Pb | 7439-92-1 | 0.038 | Pb in copper alloy (E.U. RoHS exempt) |
| | Zn plating | 0.03% | Zn | 7440-66-6 | 0.006 | |