

## ***Hazardous Substance Declaration of Non-Use – JIG 101, Level B***

Semtech certifies that the product material information provided below, as it applies to products numbered with a “T” or “LF” suffix, is representative and accurate as of the date of disclosure. This declaration is in alignment with the Joint Industry Guide: Material Composition Declaration for Electronic Products (JIG-101) as it applies to Level B Materials and Substances. Please refer to our Pb-Free / RoHS search engine within our website at [www.semtech.com](http://www.semtech.com).

<b>JIG Level-B Substances</b>	<b>Examples of Potential Use</b>	<b>Legal Reference</b>	<b>Homogeneous Level<sup>(1) (2)</sup></b>
Antimony / Antimony Compounds	Pigment, paint, catalyst, lead free solder, stabilizer, type dopant, flame retardant, catalyst	Not applicable, Level B Material / Substance	1000 ppm <sup>(3)</sup> Not intentionally added
Arsenic / Arsenic Compounds	Pigment, paint, dye, antifoamer for glass, III-V group semiconductor substrate (GaAs), Flame retardant	Not applicable, Level B Material / Substance	< 1000 ppm, Not intentionally added
Beryllium / Beryllium Compounds	Ceramics, metal alloy, copper-beryllium alloy, catalyst, precipitation hardening allow, copper-beryllium allow for spring, solder	Not applicable, Level B Material / Substance	< 1000 ppm, Not intentionally added
Bismuth / Bismuth Compounds	Lead free solder, solder	Not applicable, Level B Material / Substance	< 1000 ppm, Not intentionally added
Brominated Flame Retardants (other than PBBs or PBDEs)	Flame retardant, package molding sealing, plasticizer for PVC, flame retardant	Not applicable, Level B Material / Substance	1000 ppm <sup>(3)</sup> Not intentionally added
Nickel	Surface treatment, nickel plating	Not applicable, Level B Material / Substance	1000 ppm <sup>(3)</sup> Not intentionally added <sup>(4)</sup>
Phthalates	Plasticizer, dye, pigment, paint, ink, adhesive, lubricant	Not applicable, Level B Material / Substance	< 1000 ppm, Not intentionally added
Selenium / Selenium Compounds	Photoreceptor, pigment, ink, catalyst, oxidizer, semiconductor material, light receiving element, photocell	Not applicable, Level B Material / Substance	< 1000 ppm, Not intentionally added
Poly Vinyl Chloride Polymer (PVC)	Insulator, chemical resistance, transparency, sheath material	Not applicable, Level B Material / Substance	< 1000 ppm, Not intentionally added

Note(s):

- (1) Threshold does not apply to applications covered by a RoHS substance exemption
- (2) The default threshold concentration level is 1000 ppm based upon the weight of the inorganic element, totaled from all forms present, or the organic substances in a category contained in the product or subpart divided by the total weight of the product or subpart for which the declaration is being made.
- (3) Refer to Semtech's RoHS Table within our website, [www.semtech.com](http://www.semtech.com), for part numbers that exceed the threshold limit.



- (4) Nickel is reported when used in applications where nickel components are likely to result in prolonged skin exposure. Use of nickel or nickel compounds in components and parts designed to be located inside the outer enclosure of a product are not required to be reported and fall within compliance to JIG-101 for Level B Materials and Substances.

Semtech has relied on information provided by our suppliers in making this declaration and has taken and continues to take commercially reasonable steps to provide representative and accurate information. Semtech's standard Sales Terms and Conditions, including warranty and limitations of liability, apply to the declarations made herein unless otherwise provided by a written contract or other agreement signed by the parties.

A handwritten signature in black ink, appearing to read 'Pat Sanchez', is written over a horizontal line.

Signed: \_\_\_\_\_  
Pat Sanchez, Manager, Corporate Quality

Date: 11/15/11