

Material Declaration Data Sheet

**Purpose**

The declaration below is intended for use as disclosure of the substances contained in products supplied by Cookson Electronics Assembly Materials Group. This disclosure is provided for manufacturers of Electrical and Electronic Equipment (EEE) and sub assemblies of EEE.

Date	15 April, 2005
Company Name	Cookson Electronic Assembly Materials
Product Name	ALPHA WS-619-LF Solder Paste
Alloy	SAC405
Product Total Mass (g)	Not applicable – bulk material, concentrations reported in ppm

Materials and Substances

The table below references Level A and B Materials and Substances indicated in the Joint Industry Guide – Material Composition Declaration Guide September 19th 2003. This includes the materials defined in Article 4 .1 of the European Directive 2002/95/EC on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS Directive).

Material/Substance	Threshold Level	Material/Substance Concentration
Asbestos	Intentionally added	Less than Threshold Level/ Not Intentionally Added
Azo colorants	Intentionally added	Less than Threshold Level/ Not Intentionally Added
Cadmium/Cadmium Compounds **	100ppm or Intentionally added	Less than Threshold Level/ Not Intentionally Added
Hexavalent Chromium/ Hexavalent Chromium Compounds **	1000ppm or Intentionally added	Less than Threshold Level/ Not Intentionally Added
Lead/Lead Compounds **	1000ppm or intentionally added	Less than Threshold Level/ Not Intentionally Added
Mercury/Mercury Compounds **	1000ppm or intentionally added	Less than Threshold Level/ Not Intentionally Added
Ozone Depleting Substances (CFCs, HCFCs, HBFCs, carbon tetrachloride etc.)	Class I : Intentionally added Class II : HCFCs : 1000ppm	Less than Threshold Level/ Not Intentionally Added
Polybrominated Biphenyls (PBBs) **	1000ppm or Intentionally added	Less than Threshold Level/ Not Intentionally Added

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Polybrominated Biphenylethers (PBDEs) **	1000ppm or Intentionally added	Less than Threshold Level/ Not Intentionally Added
Polychlorinated Biphenyls (PCBs)	Intentionally added	Less than Threshold Level/ Not Intentionally Added
Polychlorinated Naphthalenes (more than 3 chlorine atoms)	Intentionally added	Less than Threshold Level/ Not Intentionally Added
Radioactive Substances	Intentionally added	Less than Threshold Level/ Not Intentionally Added
Shortchain Chlorinated Paraffins	Intentionally added	Less than Threshold Level/ Not Intentionally Added
Tributyl Tin (TBT) and Triphenyl Tin (TPT)	Intentionally added	Less than Threshold Level/ Not Intentionally Added
Tributyl Tin Oxide (TBTO)	Intentionally added	Less than Threshold Level/ Not Intentionally Added
Antimony/Antimony Compounds	1000ppm	Less than Threshold Level
Arsenic/Arsenic Compounds	1000ppm	Less than Threshold Level
Beryllium/Beryllium Compounds	1000ppm	Less than Threshold Level
Bismuth/Bismuth Compounds	1000ppm	Equal to Threshold Level
Brominated Flame Retardants	1000ppm	Less than Threshold Level
Copper/Copper Compounds	1000ppm	Less than 6000ppm
Gold/Gold Compounds	1000ppm	Less than Threshold Level
Magnesium	1000ppm	Less than Threshold Level
Nickel/Nickel Compounds	1000ppm	Less than Threshold Level
Palladium/Palladium Compounds	1000ppm	Less than Threshold Level
Phthalates	1000ppm	Less than Threshold Level
Selenium/Selenium Compounds	1000ppm	Less than Threshold Level
Silver/Silver Compounds*	1000ppm	Less than 42,000ppm
Vinyl Chloride Polymer (PVC)	1000ppm	Less than Threshold Level

** RoHS Regulated Substance

Source data used for Declaration:

- √ Third party analysis of actual product
- √ Subject matter expert assessment

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