

Certificate of Compliance

DUNS		Document Date	URL for Additional Information
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Contact	Title	Phone	Email
David Lancaster	Product Ecology Manager	801.562.7455	david.lancaster@fairchildsemi.com

Material Declaration Processing Information

FSID	Material Declaration	Site Owner	Assembly Location	Package Weight(g)	MSL Rating
FDMF8704	Power-88	PENANG	INTERNAL PENANG	0.165	3
Terminal Finish	Base Alloy	Green Status	Reflow Cycles	Max Time at Temp	Peak Temp
Nickel/Palladium/Gold (Ni/Pd/Au)	CU Alloy	Does NOT Contain Halogens (Flame Retardant Free). This product is Green as defined by Fairchild; specifically the concentration of Chlorine, Bromine and Antimony is less than 900 ppm and the sum concentration of Chlorine and Bromine is less than 1500 ppm	3	30	260

Homogenous Material Composition Declaration

Component	Material	Weight of Component(mg)	Substance	Weight (mg)	CAS	PPM in FSID
Chip	Other inorganic materials	1.050	Silicon	1.050	7440-21-3	6345
Die Attach	Other Nonferrous metals & alloys	0.556	Acrylic Resin	0.083	54208-63-8	504
			Silver	0.473	7440-22-4	2858
Encapsulation	Thermoplastics	83.200	Carbon Black	0.832	1333-86-4	5028
			Epoxy Resin	4.160	29690-82-2	25139
			Phenolic Resin	4.160	9003-35-4	25139
			Silica, vitreous	74.048	60676-86-0	447480
Lead Frame	Other Ferrous alloys, non-stainless steels	80.000	Silver	0.021	7440-22-4	126
			Zinc	0.088	7440-66-6	532
			Iron	1.810	7439-89-6	10938
			Copper	78.100	7440-50-8	471967
Terminal Finish	Precious metals	0.354	Gold	0.004	7440-57-5	21
			Palladium	0.032	7440-05-3	193
			Nickel	0.319	7440-02-0	1928
Wire Bond		0.298	Gold	0.298	7440-57-5	1801

Note: The substance content disclosed herewith is approximate and is based on various methods including, engineering calculations, supplier surveys, Material Safety Data Sheets, analytical measurements. Fairchild may update this document without notification.

Additionally, the following should be noted:

- This statement may not include information regarding the minute quantities of dopant and metal materials in the electrical devices contained within the finished product.
- CAS numbers listed for Resin substances are generic and may contain alternate substances of similar composition.

RoHS Declaration

The European Parliament and of the Council on the Restriction of the use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) directive restricts the concentration of Lead (Pb), Mercury (Hg), Hexavalent Chromium (Cr6+), Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers (PBDE) to 0.1% (1000 PPM) and restricts the concentration of Cadmium (Cd) to 0.01% (100 PPM) in homogeneous materials of electronic products.

The FSC part number listed above and the homogenous materials in the product are compliant with the Directive 2011/65/EU of FSC is aware of the Courts annulment of the exemption of decabromodiphenyl ether (decaBDE) effective June 08, 2011. FSC products do not contain Decabromodiphenyl ether (decaBDE).

Exemptions as declared for the directive are: 0

China RoHS

With the possible exception of lead, if applicable (refer to the RoHS Declaration statement above), this product and all homogeneous materials in the product comply with the China RoHS standard SJ/T 11363-2006.

REACH Compliance

The Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) entered into force on June 1, 2007. Fairchild Semiconductor is aware of and agrees with the purpose of REACH which is to ensure a high level of protection of human health and the environment. Fairchild Semiconductor is compliant with all applicable requirements of REACH and has provided information regarding the chemical composition of our product(s) in this document.

Fairchild Semiconductor is neither a manufacturer nor importer of preparations into Europe and therefore the registration requirements do not apply to us. It is expected that any electronic materials manufactures that use preparations from Europe in their products will ensure compliance with REACH registration requirements.

Product (articles) manufacturers or importers into Europe are obligated under Article 33 of REACH to inform recipients of any articles that contain chemicals on the Substances of Very High Concern (SVHC) candidate list above a 0.1% concentration (by weight per article). Products manufactured and marketed by Fairchild Semiconductor **do not** contain substances on the REACH SVHC candidate list in concentrations greater than 0.1% by weight per article.

Fairchild will continue to monitor the developments of the REACH legislation and is committed to meeting our responsibilities as an environmentally-responsible company. Refer to the ECHA European Chemical Agency weblink for a complete list of SVHC.
[ECHA European Chemical Agency](#)

Joint Industry Guide (JIG) 101

With the exception of RoHS exemptions listed above (if applicable), this product does not contain any restricted substances listed in the Joint Industry Guide (JIG) 101 in concentrations greater than the threshold listed.

Substance Name	Threshold
Asbestos	Intentionally added
Certain Azocolourants and Azodyes	Intentionally added
Cadmium / Cadmium Compounds	75 Ppm or Intentionally added
Hexavalent Chromium / Hexavalent Chromium Compounds	1000 ppm or intentionally added
Lead / Lead Compounds	1000 ppm or intentionally added
Mercury / Mercury Coumpounds	1000 ppm or intentionally added
Ozone Depleting substances (CFCs, HCFCs, HBFCs, carbon tetrachloride)	Class I: Intentionally added Class I: HCFCs 1000 ppm
Polybrominated Biphenyls (PBBs)	1000 ppm or intentionally added
Polybrominated Diphenylethers (PBDEs)	1000 ppm or intentionally added
Polychlorinated Biphenyl's (PCBs)	1000 ppm or intentionally added
Polychlorinated Naphthalenes (more than 3 chlorine atoms)	Intentionally added
Radioactive substances	Intentionally added
Certain Shortchain Chloronated Pataffins	Intentionally added
Tributyl Tin (TBT) and Triphenyl Tin (TPT)	Intentionally added
Tributyl Tin Oxide (TBTO)	Intentionally added

[Joint Industry Guide \(JIG\) 101](#)

The signature below is of the Company's designated personnel with delegated product ecology compliance responsibility and verifies that to the best of our knowledge the statements above are valid and accurate.

David Lancaster



Product Ecology Manager

Fairchild Semiconductor

3333 W 9000 S

West Jordan, UT 84088

Tel 1-801-562-7455

Email: david.lancaster@fairchildsemi.com



Environmental Declaration

The content of this document is based upon information collected from Fairchild Semiconductor's supply chain, manufacturing facilities and affiliates worldwide. Providing for limitations below, Fairchild Semiconductor certifies that the information provided in this document is correct as of the date indicated on this page.

Fairchild has implemented systems to ensure our products are compliant to environmental regulations and laws worldwide. However, not all materials in Fairchild's products may have been independently verified regarding substance content. In the event of any issues arising from information in this document, the warranty section of Fairchild's standard terms and conditions of sale shall apply, unless alternate contracts have been agreed upon in writing by both parties.