

## Material Composition Declaration

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This document is a declaration of the substances within the manufacturer listed item. Note: if the item is an assembly with lower level parts, the declaration encompasses all lower level materials for which the manufacturer has engineering responsibility.

1752-2 1.1

ICP Web Site for information on IPC-1752 Standard  
<http://www.ipc.org/IPC-175x>

Form Type\*  
Distribute

**Declaration Class\***  
**Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information**

### Supplier Information

<b>Company Name *</b> Fairchild Semiconductor	Company Unique ID 00-489-5751	Unique ID Authority Dun & Bradstreet	<b>Response Date*</b> Sat, May 19, 2012 04:04 AM
<b>Contact Name *</b> David Lancaster	Title - Contact Product Ecology	<b>Phone - Contact *</b> 801-562-7455	<b>Email - Contact *</b> david.lancaster@fairchildsemi.com
<b>Authorized Representative *</b> David Lancaster	Title - Representative Product Ecology	<b>Phone - Representative *</b> 801-562-7455	Email - Representative * david.lancaster@fairchildsemi.com

Requester Item Number	Mfr Item Number	Mfr Item Name	Effective Date	Version	Manufacturing Site	Weight*	UOM	Unit Type
HCPL2531WV	HCPL2531WV	DIPB-8			INTERNAL PENANG	0.474	g	Each

### Manufacturing Process Information

Terminal Finish	Base Alloy	J-STD-020 MSL Rating	Peak Process Body Temperature	Max Time at Peak Temperature	No Reflow cycles
Matte Tin (Sn)	CU Alloy	Not Applicable	C	seconds	Not Applicable

\* Required Field

<b>RoHS Material Composition Declaration</b>	<b>Declaration Type * Custom</b>
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<b>RoHS Directive 2002/95/EC</b>	<b>RoHS Definition:</b> Quantity limit of 0.1% by mass (1000 PPM) in homogeneous material for: Lead (Pb), Mercury, Hexavalent Chromium, Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers (PBDE) and quantity limit of 0.01% by mass (100 PPM) of homogeneous material for Cadmium
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Providing for limitations below, we certify that the Fairchild Semiconductor product(s) list in this document are compliant to directive 2002/95/EC of the European Parliament and of the council on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS directive). Specifically, this product(s) does not contain the substances in the RoHS definition above in concentrations greater than the maximum limit value(a).

Fairchild has implemented procedures to ensure our products and the materials in our products conform to regulatory requirements worldwide. Fairchild Semiconductor certifies that the information provided in this document is correct as of the date indicated on this document. However, not all materials in Fairchild's products may have been independently verified or tested with regard to 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.

(a) Maximum limit does not apply to applications for which exemptions have been granted by the RoHS directive. Fairchild product may utilize exemption 5 and 7a.

<b>RoHS Declaration *</b>	<b>1 - Item(s) does not contain RoHS restricted substances per the definition above</b>	<b>Supplier Acceptance * Accepted</b>
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**Exemptions:** If the declared item does not contain RoHS restricted substances per the definition above except for defined RoHS exemptions, then select the corresponding response in the RoHS Declaration above and choose all applicable exemptions.

Exemption List Version EL-2006/690/EC	0
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**Declaration Signature**

Supplier Signature	 DAVID LANCASTER - PRODUCT ECOLOGY MANAGER
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**Homogeneous Material Composition Declaration for Electronic Products**

Item/SubItem Name DIPB-8

Component	Material	Weight (mg)	Jig Level	Substance Category	Substance	Weight (mg)	CAS	PPM
Chip	Other inorganic materials	3.753	Supplier		Gallium Arsenide	0.263	1303-00-0	555
			Supplier		Silicon	3.490	7440-21-3	7358
Coupling Gel	Other Organic Materials	4.384	Supplier		Demethyl Siloxane	0.734	68083-19-2	1548
			Supplier		Silane	2.130	2530-85-0	4491
			Supplier		Titanium Dioxide	1.520	13463-67-7	3205
Die Attach	Other Organic Materials	0.423	Supplier		Acrylic Resin	0.106	54208-63-8	223
			Supplier		Silver	0.317	7440-22-4	668
Encapsulation	Thermoplastics	344.100	B	Antimony/Antimony Compounds	Antimony Trioxide	10.300	1309-64-4	21717
			B	Brominated Flame Retardants (other than PBCs or PBDEs)	Bromine Resin	13.700	6386-73-8	28886
			Supplier		Epoxy Resin	79.100	29690-82-2	166777
			Supplier		Silica, vitreous	241.000	60676-86-0	508133
Lead Frame	Other Ferrous alloys, non-stainless steels	117.616	Supplier		Copper	114.000	7440-50-8	240362
			Supplier		Iron	2.700	7439-89-6	5693
			Supplier		Phosphorus	0.035	7723-14-0	74
			Supplier		Silver	0.740	7440-22-4	1560
			Supplier		Zinc	0.141	7440-66-6	297
Plating	Other Nonferrous metals & alloys	3.810	Supplier		Tin	3.810	7440-31-5	8033
Wire Bond	Precious metals	0.199	Supplier		Gold	0.199	7440-57-5	420