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.

Adobe Reader version 7.0.5 is required to complete this declaration.

1752-1 1.1	IPC Web Site for Information on IPC-1752 Standard http://www.ipc.org/IPC-175x	**Form Type *** Distribute	**Declaration Class *** Class 4 - RoHS Yes/No, JIG Format Substances, Mfg Info

Supplier Information

Company Name *	Company Unique ID	Unique ID Authority	**Response Date ***	Response Document ID	
CHiL Semiconductor			**2010-10-25**		
Contact Name *	Title - Contact	**Phone - Contact ***	**Email - Contact ***		
Manu Jain		**978-640-0011**	**quality@chilsemi.com**		
Authorized Representative *	Title - Representative	**Phone - Representative ***	**Email - Representative** *	Supplier Comments or URL for Additional Information	
Manu Jain		**978-640-0011**	**quality@chilsemi.com**		

Requester Item Number	Mfr Item Number	Mfr Item Name	Effective Date	Version	Manufacturing Site	**Weight ***	UOM	Unit Type
	CHL8112A	**CHL8112A**	**2010-10-25**			**118**	**mg**	**Each**

Alternate Recommendation				Alternate Item Comments	

Manufacturing Process Information

Terminal Plating / Grid Array Material	Terminal Base Alloy	J-STD-020 MSL Rating	Peak Process Body Temperature	Max Time at Peak Temperature	Number of Reflow Cycles
Matte Tin (Sn)	**CU Alloy**	**1**	**257** C	**25** seconds	**1**

Comments

Does not contain PFOS

*** Required Field**

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Save the fields in this form to a file | Export Data | Import fields from a file into this form | Import Data | Locked

RoHS Material Composition Declaration

Declaration Type * **Custom**

RoHS Directive 2002/95/EC	**RoHS Definition:** 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

Subject to the limitations below, CHiL Semiconductor Corporation certifies the following information as of the document date.

1. CHiL products designated "ROHS Compliant" comply with the European Unions Directive on the Restriction of the Use of Hazardous Substances 2002/95/EC ("RoHS").
2. CHiL products do not contain and are not manufactured with ozone depleting compounds.
3. CHiL products do not contain substances identified by the European Chemical Agency ("ECHA") as substances of very high concern ("SVHC") per REACH Regulation (EC) No 1907/2006. CHiL also complies with use restrictions as stipulated in Annex XVII of REACH.
4. CHiL's list of banned and reportable substances and management system is based on the current version of the Joint Industrial Guide, JIG-101.

CHiL has taken commercially reasonable steps to provide representative and accurate information but may not have independently verified information provided or conducted chemical analysis of incoming materials. Equivalent compliant materials may have been substituted for those stated herein. Material concentrations are the maximum expected concentration of the substance in the device and may not represent the actual concentration. CHiLand its suppliers consider certain limited information to be confidential and thus CAS numbers and other limited information may not be available for release.

CHiL ACCEPTS NO DUTY TO NOTIFY USERS OF THIS DECLARATION OF UPDATES OR CHANGES TO THIS DECLARATION

RoHS Declaration *	1 - Item(s) does not contain RoHS restricted substances per the definition above	**Supplier Acceptance ***	**Accepted**

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.

Declaration Signature

Instructions: Complete all of the required fields on all pages of this form. Select the "Accepted" on the Supplier Acceptance drop-down. This will display the signature area. Digitally sign the declaration (if required by the Requester) and click on Submit Form to have the form returned to the Requester.

Supplier Digital Signature	Digitally signed by Manu Jain Date: 2010.12.15 16:10:36 -05'00'	

*** Required Field**

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Joint Industry Guide (JIG) Material Composition Declaration for Electronic Products

Instructions: Declare whether the item substances exceed the threshold levels shown in the table and report accordingly. Where threshold levels include the words "intentionally added", substances must be declared if they are added intentionally, regardless of threshold level. For each RoHS substance, identified with dual asterisks (**), report the worst case PPM at the homogeneous material level and optionally the total weight of the substance in the item. For all remaining (non-RoHS) JIG A & B substances, and any additional substances, report the total weight and optionally the PPM at the part level for each item.

JIG A autofill - No | JIG B autofill - No | All autofill - No

JIG	Category Name	Threshold Level	Above Threshold Level?	If yes, enter total weight and worse case PPM			Description of Use
Level	**As defined in the Joint Industry Guide**	**Intentionally added or PPM**	**Yes/No**	**Weight**	**UoM**	**PPM**	
A	Asbestos	Intentionally Added	**No**				
A	Certain Azo colorants	Intentionally Added	**No**				
A	Cadmium/Cadmium Compounds **	75 PPM or Intentionally Added	**No**				
A	Hexavalent Chromium/Hexavalent Chromium Compounds **	1000 PPM or Intentionally Added	**No**				
A	Lead/Lead Compounds **	1000 PPM or Intentionally Added	**No**				
A	Lead/Lead Compounds - PVC Cables and Wires Only **	300 PPM	**No**				
A	Mercury/Mercury Compounds **	1000 PPM or Intentionally Added	**No**				
A	Ozone Depleting Substances - Class I (CFCs, HBFCs, etc.)	Intentionally Added	**No**				
A	Ozone Depleting Substances - Class II (HCFCs)	1000 PPM	**No**				
A	Polybrominated Biphenyls (PBBs) **	1000 PPM or Intentionally Added	**No**				
A	Polybrominated Diphenylethers (PBDEs) **	1000 PPM or Intentionally Added	**No**				
A	Polychlorinated Biphenyls (PCBs)	Intentionally Added	**No**				
A	Polychlorinated Naphthalenes (> 3 chlorine atoms)	Intentionally Added	**No**				
A	Radioactive Substances	Intentionally Added	**No**				
A	Certain Shortchain Chlorinated Paraffins	Intentionally Added	**No**				
A	Tributyl Tin (TBT) and Triphenyl Tin (TPT)	Intentionally Added	**No**				
A	Tributyl Tin Oxide (TBTO)	Intentionally Added	**No**				
B	Antimony/Antimony Compounds	1000 PPM	**No**				
B	Arsenic/Arsenic Compounds	1000 PPM	**No**				
B	Beryllium/Beryllium Compounds	1000 PPM	**No**				
B	Bismuth/Bismuth Compounds	1000 PPM	**No**				
B	Brominated Flame Retardants (other than PBBs or PBDEs)	1000 PPM	**No**				
B	Nickel (external applications only)	1000 PPM	**No**				
B	Certain Phthalates	1000 PPM	**No**				
B	Selenium/Selenium Compounds	1000 PPM	**No**				
B	Polyvinyl Chloride (PVC)	1000 PPM	**No**				

*** Required Field**

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OTHER Material Composition Declaration

Requester Instructions: The requester can optionally include additional substances that must be declared for the item on this form. This is in addtion to JIG Level A and JIG Level B substances. The requester should enter additional substances as well as the threshold levels that specify the substance at the item level.

Supplier Instructions: Explicitly declare whether the item exceed the threshold level by selecting Yes or No. If the maximum concentration of any substance exceeds the threshold levels defined by the requester, then the substance content must be reported in total weight and/or worst case PPM, along with a description of material use.

JIG	Category Name	Threshold Level
Other	As defined by the Supplier	Defined by the Supplier
+ -		

Add Other Material Composition to JIG Tab | Clear Other Material Composition in JIG Tab

*** Required Field**

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