



Cypress Semiconductor  
198 Champion Court  
San Jose, CA 95134

May 30, 2007

Dear Customer:

Subject: Cypress Semiconductor Corporation Lead Free, RoHS, and "Green" Programs

Cypress Semiconductor Corporation ("Cypress") recognizing customer concerns regarding toxic substances has instituted programs to address customer's Lead Free, RoHS and "Green" requirements (the "Programs"). This letter summarizes these Programs. They are:

- 1) All four Cypress manufacturing facilities (San Jose, Minnesota, Texas, Philippines) are 1S014001 certified. Cypress has an Environmental Management System (EMS) in place that serves as the backbone for our overall corporate program.
- 2) Cypress Pb-Free products meet the requirements of the 2002/95/EC Restriction of Hazardous Substances (RoHS) directive and China RoHS directive. Cypress has over 5000 Pb-Free products that meet all RoHS requirements. Package Material Declaration Datasheets (PMDD's) have been created, listing all substances contained in Cypress products. Table A summarizes information related to all of Cypress' Pb-Free products. This table lists many banned substances, including RoHS substances, and their related PPM levels. Cypress standard products are Pb-Free and do not contain the six restricted substances above allowable levels. Non Pb-Free products may contain Pb but do not contain the other five substances above allowable levels.
- 3) Pb-Free products are identified with the letter "X" appended to the marketing part numbers after the package code while non Pb-Free part numbers do not contain the letter "X".

Example: SnPb leaded device - CY7C1049CV33-10VC  
Pb-Free device - CY7C1049CV33-10VXC  
Additional examples are listed in Table B.

- 4) Cypress is using "Green" guidelines provided by EIA/JIG/JGPSSI/EICTA along with many customer lists to identify and reduce/eliminate additional "restricted" substances beyond the RoHS legislation. We are deploying these guidelines to all Cypress subcontractors and suppliers. Internally, we audit and use 3rd party test results to confirm Cypress packages comply with related requirements.

Furthermore, our goal is to reduce or eliminate antimony, bismuth, and other halide compounds from our current packages. As Cypress introduces these "Green" products, the Pb-Free part number will continue to be used. Any major product changes to achieve "Green" will follow the standard Process Change Notification procedure. Other substances to be eliminated or reduced, beyond the scope of RoHS, are being addressed in this program.

Thank you for your interest in Cypress products.

Peter Mitchell  
Vice President of Worldwide Assembly and Test

**TABLE A - BANNED SUBSTANCES CONTAINED IN Ph-FREE PRODUCT**  
(PMDD's listing all substances are available at [www.cypress.com](http://www.cypress.com).)

Substances/ Compounds	Weight by mg	PPM	Analysis Report
Cadmium and Cadmium Compounds	0	<5.0	3 <sup>rd</sup> Party Test Result
Hexavalent Chromium and its Compounds	0	<5.0	
Lead and Lead Compounds	0	<5.0	
Mercury and Mercury Compounds	0	<5.0	
Polybrominated Biphenyls (PBB)	0	<5.0	
Polybrominated Diphenylethers (PBDE)	0	<5.0	
Asbestos	0	0	As per MSDS
Azo colorants	0	0	As per MSDS
Ozone Depleting Substances	0	0	As per MSDS
Polychlorinated Biphenyls (PCBs)	0	0	As per MSDS
Polychlorinated Naphthalenes	0	0	As per MSDS
Radioactive Substances	0	0	As per MSDS
Shortchain Chlorinated Paraffins	0	0	As per MSDS
Tributyl Tin (TBT) and Triphenyl Tin (TPT)	0	0	As per MSDS
Tributyl Tin Oxide (TBTO)	0	0	As per MSDS
Formaldehyde	0	0	As per MSDS

**TABLE B - MARKETING PART NUMBERS FOR STANDARD & Ph-FREE PRODUCT**  
(See your sales representative for complete list)

	NON Pb-FREE MKTG PART NUMBER	STANDARD Pb FREE PART NUMBER
SRAM	CY7C199C-15VC	CY7199C-15VXC
	CY7C1011CV33-15BVCT	CY7C1011CV33-15BVXCT
	CY7C1024AV33-10BGCT	CY7C1024AV33-10BGXCT
	CY62158CV33LL-70BAIT	CY62158CV33LL-70BAXIT
DATACOM	CY7C0451V18-133BBI	CY7C0451V18-133BBXI
	CY7C056V-12AC	CY7C056V-12AXC
	CY7C4292V-15ASI	CY7C4292V-15ASXI
	CY7C441-14JC	CY7C441-14JXC
CLOCKS	IMIB9949CAT	CYB9949CAXT
	CY7B9950AC	CY7B9950AXC
	CY2DP818ZI-2T	CY2DP818ZXI-2T
USB	CY7C63001A-PC	CY7C63001A-PXC
	CY7C64113-PVC	CY7C64113-PVXC
	CY7C65640-LFC	CY7C65640-LFXC
	SL811HST-AC	SL811HST-AXC
	CY7C65113-SCT	CY7C65113-SXCT
PSOC	CY8C27643-24PVIT	CY8C2643-24PVXIT
	CY8C27643-24LFI	CY8C2643-24LFXI
	CY8C26443-24SIT	CY8C26443-24SXIT
	CY8C26643-24AI	CY8C26643-24AXI