



Cypress Semiconductor
198 Champion Court
San Jose, CA 95134

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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.)

| Substances/ Compounds | Weight by mg | PPM | Analysis Report |
|--|--------------|------|-----------------------------------|
| Cadmium and Cadmium Compounds | 0 | <5.0 | 3 rd 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 Napthalenes | 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 |