

# Material Declaration Certificate for Semiconductor Products

TI certifies to the best of its knowledge that TI's semiconductor products designated as "Pb-Free", "RoHS Exempt" or "Green" (defined below):

- Are compliant with the threshold requirements of the European Union's Restriction on Use of Hazardous Substances Directive, 2002/95/EC ("RoHS1"), as well as the recast Directive 2011/65/EU ("RoHS 2")
- Do not exceed IEC 62474 dB (formerly the Joint Industry Guide ("JIG-101")) and the Global Automotive Declarable Substance List (GADSL) for regulated substance thresholds
- Meet the China Management Methods for controlling Pollution by Electronic Information Products ("China RoHS").
- Do not contain any of the Registration, Evaluation, Authorization and Restriction of Chemicals ("REACH") substances
  of very high concern (SVHC) above the regulatory threshold of 0.1% at the Article 33 level. (See
  <a href="ITT-REACH">ITT-REACH</a> Statement.pdf for the latest TI REACH document)

TI defines "Pb-free", "RoHS Exempt" and "Green" products as follows:

- Pb-Free: TI defines "Pb-Free" or "RoHS Compliant" to mean semiconductor products that are compliant with the
  current EU RoHS requirements for all 6 RoHS substances, including the requirement that lead not exceed 0.1% by
  weight in homogeneous materials. Where designed to be soldered at high temperatures, TI "Pb-Free" and "RoHS
  Compliant" products are suitable for use in specified lead-free processes. Product is also fully compliant to GADSL
  and IEC 62474 database electronics requirements
- RoHS Exempt: TI defines "RoHS Exempt" to mean products that contain lead but are compliant with EU RoHS
  pursuant to a specific EU RoHS exemption.
- Green: TI defines "Green" to mean Pb-Free/RoHS Compliant and content of Chlorine (CI), Bromine (Br) based flame retardants meet JS709B low halogen requirements of <=1000ppm threshold. Antimony trioxide based flame retardants must meet the 1000ppm threshold requirement

Note: Proprietary materials must be in full compliance to known regulatory requirements as well

TI semiconductor products *not* designated as "Pb-Free" or "Green" complies with EU RoHS and China RoHS for all substances except Lead (Pb), which may be found in the leadframe plating or solder balls, or in one of the RoHS exempt applications, 7(a), 7(c)-IV or 15. For semiconductor products containing lead, the China RoHS EFUP is 50 years (<a href="www.ti.com/leadfree">www.ti.com/leadfree</a>).

TI's position is that its semiconductor products are considered "components" under EU RoHS definition. Therefore, the CE marking, EU declaration of conformity, and internal product control provisions stipulated in Article 7 of RoHS 2 do not apply.

Evaluation modules (EVMs): TI's EVMs are "equipment specifically designed solely for the purposes of research and development only made available on a business-to-business basis" and, per Article 2(4)(j) of RoHS 2, are not subject to RoHS 2.

To the best of TI's knowledge, its packing materials (boxes, trays, etc) comply with EU Directive 2013/2/EU for Packaging and Packaging Waste Material.

Signature:

Name/Title:

Robert Furtaw, Vice President, Worldwide SC Quality

Date:

10/06/2015

## **Important Warrantee and Disclaimer Information**

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2 Revised: October 2015

### **Products**

Audio Amplifiers Data Converters DLP® Products DSP

Clocks and Timers

Interface Logic

**Power Mgmt** 

Microcontrollers

**RFID** 

OMAP Applications

**Processors** 

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Space, Avionics and Defense

Video and Imaging TI E2E Community

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Products	Applications
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