



Timing and Synchronization Systems

Environmental Policy

November 2015

Environmental Policy

The management and employees of Microsemi® Frequency & Time Division (FTD) are committed to the following Environmental Policy:

We will:

- Protect the environment by the prevention of pollution, through material selection, by reuse and recycling, and by resource conservation.
- Comply with all legal and other requirements that apply to our facilities, operations, and products.
- Implement effective operational controls on aspects that have the potential for significant impact on the environment

WEEE and RoHS Initiatives

Microsemi is compliant with regulatory and statutory requirements related to the elimination of hazardous substances used in electronic products relevant to the markets we serve. Inclusive in the regional requirements are the European Union, People's Republic of China and United States of America requirements on products for recycling and hazardous substances restrictions or declarations. Microsemi has increased our commitment to environmental stewardship through ISO 14001 compliance focus in our Massachusetts atomic clock manufacturing facilities and reporting of our greenhouse gas releases through the Carbon Data Project.

For more information on Microsemi RoHS environmental stewardship program, please contact us at FTD.RoHS@microsemi.com.

The European Union (EU) Restriction of the Use of Certain Hazardous Substances (RoHS) Directive

In 2004, the European Parliament and Council passed the Restriction of the Use of Certain Hazardous Substances (RoHS) Directive 2002/95/EC to "protect human health and the environment by restricting the use of certain hazardous substances in new equipment". The RoHS directive took effect on 1 July 2006 with the most recent recast RoHS Directive 2011/65/EU (RoHS2) becoming effective on 3 January 2013.

Microsemi's products fall under two RoHS Categories.

Category 9 Industrial Monitoring and Control Instruments

- GPS and Time Code Instrumentation
- Time and Frequency Distribution
- Precise Frequency References/Atomic Oscillators
- Bus Level Timing
- Time Displays
- Space, Defense and Avionics Products

These products are excluded from the Restrictive Substance Requirements of the RoHS Directive under Category 9 (Industrial Monitoring and Control Instruments) as defined by 2011/65/EU Annex 1, exemption unexpired through 22 July 2017. Reference RoHS Directive 2011/65/EU Article 4, Paragraph 3.

Category 3 IT and Telecommunications Equipment

- Primary Reference Sources
- Edge Clocks and Distributors
- BITS/SSU Systems

- Telecommunications and Server Equipment
- OEM Subsystems and Components
- Broadband Network

Microsemi Category 3 IT and Telecommunications Equipment products, as defined by 2011/65/EU Annex 1, are RoHS compliant. Some of these products use the exemption for the use of lead in "solders for servers, storage and storage array systems, network infrastructure equipment for switching, signaling, transmission as well as network management for telecommunications".

For more information on Microsemi's RoHS program, please contact us at FTD.RoHS@microsemi.com.

The China Ministry of Information Order #39 (China RoHS)

In 2006, the Chinese Ministry of Information Industry released the Order NO. 39 "Management Methods for Controlling Pollution Caused by Electronic Information Products Regulation" (usually called "China RoHS"). This China RoHS directive took effect on 1 March 2007.

Microsemi is committed to meeting all applicable requirements related to the China RoHS. Products ordered for sale in the People's Republic of China will include the appropriate Environmental Protection Use Period (EPUP) information with the product, hazardous substances table and recycling mark on packaging according to the applicable regulatory requirements and standards.

For more information on Microsemi's China RoHS program, please contact us at FTD.RoHS@microsemi.com

The European Union (EU) Waste Electrical and Electronic Equipment Directive (WEEE) Directive

The Waste Electrical and Electronic Equipment (WEEE) Directive (WEEE Directive) was issued by the European Parliament in February 2003 and became effective 13 August 2005.

The new WEEE Directive 2012/19/EU (WEEE2) entered into force on the 13th of August 2012 and became effective on 14 February 2014.

- A broader scope of covered electrical and electronic equipment
- Specific exemptions
- Clarification and expansion of "producer" definition
- Modified registration and reporting requirements
- Increased collection and recycling requirements

The intention of this directive is to encourage recycling of Electrical and Electronic Equipment (EEE) to reduce unnecessary waste. It makes manufacturers responsible for facilitating the safe disposal of its supplied equipment at the end of its use and sets collection, recycling and recovery targets for all types of electrical goods.

All products supplied by us that are subject to WEEE directive carry the WEEE recycle mark. Microsemi products comply with the WEEE Directive.

For more information on Microsemi's RoHS program, please contact us at FTD.RoHS@microsemi.com.

WEEE Recycling



Products sold into Europe after August 2005 and marked with WEEE label are subject to WEEE recycling. In order to return a product for recycling, please contact your authorized Microsemi distributor to return Microsemi products for recycling.

ISO 14001 Compliant

Microsemi takes environmental responsibility very seriously, and has a progressive, active environmental management system (EMS) in place that includes:

- Conformance to ISO 14001 guidelines. ISO 14001 compliant EMS program in place at our Beverly, MA production facilities.
- Facilities management and environmental impact reduction.
- Recycling programs.
- The company headquarters is located in California, USA, which has some of the most strict hazardous waste and environmental requirements in the world. Waste recovery, hazardous material management, and environmental impact reporting are a part of regular business.



Microsemi Corporate Headquarters
One Enterprise, Aliso Viejo,
CA 92656 USA

Within the USA: +1 (800) 713-4113
Outside the USA: +1 (949) 380-6100
Sales: +1 (949) 380-6136
Fax: +1 (949) 215-4996

E-mail: sales.support@microsemi.com

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