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Compliance with the RoHS

What is RoHS?

The RoHS is one of the environmental directives, which stands for "the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment".

This Directive, which came into force on July 1, 2006, bans the placing on the EU market of any new electrical and electronic equipment containing more than the agreed level of the specified substances (cadmium, mercury, lead, hexavalent chromium, polybrominated biphenyl (PBB) or polybrominated diphenyl ether (PBDE)).

Covered Products

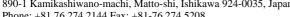
The RoHS Directive classifies the electrical and electronic equipment into ten categories. Products in categories 1 through 7 and 10 are currently the subject to this regulation (as of August, 2006). If products in these categories contain more than the agreed level of the specified substances, they will not be allowed to be placed on the EU market after July, 2006.

RoHS specified products

	Category	Products
1.	Large household appliances	Refrigerators, domestic washing machines, microwave
		ovens, air conditioners, etc.
2.	Small household appliances	Vacuum cleaners, irons, hair dryers, etc.
3.	IT and telecommunications	Printers, mini computers, PCs, etc.
	equipments	
4.	Consumer equipments	Radios, TVs, VCRs, audio amplifiers, musical
		instruments, etc.
5.	Lighting equipments	Fluorescent lamps, discharge lamps,
		high-pressure sodium lamps, etc.
6.	Electrical and electronic tools	Electric drills, lathes, lawnmowers, etc.
7.	Toys, leisure and sports equipments	Racing car sets, game machines, etc.
8.	Medical equipments	Radiotherapy equipments, electrocardiogram
		equipments, ventilators, etc.
9.	Monitoring and control equipments	Gauges, monitoring and measuring equipments
10. Dispensers		Hot drink dispensers, canned drink dispensers, etc.

Since the majority of our products (except some FA computers) are classified under category 9, "Monitoring and control equipments", they are not the subject to the RoHS Directive at this time (as of August, 2006). When our products are incorporated in other equipment, however, the classification of the equipment may change depending on the incorporated equipment. Please check whether the RoHS Directive applies to the incorporated equipment or not.





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Maximum Allowable Content of the Six Substances Regulated by the RoHS Directive

Cadmium	100 ppm
Mercury	1000 ppm
Lead	1000 ppm
Hexavalent chromium	1000 ppm
Polybrominated biphenyl (PBB)	1000 ppm
Polybrominated diphenyl ether (PBDE)	1000 ppm

Applications of Specified Hazardous Substances which are Exempted from the Requirements

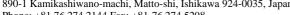
The following applications of specified hazardous substances are exempted from the requirements.

- 1) Mercury in compact fluorescent lamps not exceeding 5 mg per lamp
- 2) Mercury in straight fluorescent lamps for general purposes not exceeding:

Halophosphate lamps 10 mg Triphosphate lamps with normal lifetime 5 mg Triphosphate lamps with long lifetime 8 mg

- 3) Mercury in straight fluorescent lamps for special purposes
- 4) Mercury in other lamps not specifically mentioned in the above
- 5) Lead in glass of cathode ray tubes, electronic components and fluorescent tubes
- 6) Lead as an alloying element in steel containing up to 0.35 % lead by weight, aluminum containing up to 0.4 % lead by weight and as a copper alloy containing up to 4 % lead by weight
- 7) Lead contained in the following goods:
 - Lead in high melting temperature type solders (e.g. tin-lead based solder alloys containing more than 85 % lead)
 - Lead in solders for servers, storage and storage array systems
 - Lead in solders for network infrastructure equipment for switching, signaling, transmission, as well as network management for telecommunication
 - Lead in electronic ceramic parts
- 8) Cadmium plating except for applications banned under Directive 91/338/EEX amending Directive 76/769/EEC relating to restrictions on the marketing and use of certain dangerous substances and preparations
- 9) Hexavalent chromium as an anti-corrosive in carbon steel cooling systems of absorption refrigerators





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Exempted Products

The following products are exempted from the requirements.

- 1) Electrical and electronic equipment designed for use with a voltage rating exceeding 1,000 V for alternating current and 1,500 V direct current
- 2) Electrical and electronic equipment for national security or military purposes
- 3) Equipment whose main power source is not electricity
- 4) Equipment that fulfills its primary function without electrical and electronic equipment
- 5) Electrical and electronic equipment incorporated into the equipment that does not fall under any of the categories for regulation.
- 6) Batteries