

Protego Information AB

June 29, 2005

RoHS-Compliance at Protego Information

Summary

The RoHS directive restricts the use of some harmful substances in electronics for domestic use in the E.U. market. This document give information on the degree of RoHS-compliance of Protego's products, and give information on if the RoHS directive applies to you. This is an advisory document only.

General

The RoHS directive apply to equipment that is intended to be sold and used in Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, the Netherlands, the United Kingdom, China, and California. If you use a unit elsewhere, the RoHS directive do not apply to you.

The RoHS directive do not apply to all products. To save environment from dangerous substances effort was made to include most types of products sold in high volumes. Most end-user products is included under the directive, typically consumer and home electronics.

The RoHS directive apply only to new manufactured units. If you already hold a unit, and this unit is not RoHS-compliant, the RoHS directive allow you to replace a faulty unit and repair or upgrade the unit. You may also resell the unit to someone else.

Use in Military or for Security purposes

Our products are by nature dual purpose, where both a commercial and a military application can be served by the same unit. If you use the product in a military application, the RoHS directive do not apply. The directive do also not apply if you use the unit to preserve Security or for use by a security body.

Use in a Server or in a Server Array

The RoHS do not cover use in a server or server array where the server is
(1) an "Industrial PC" Class A product EN55022:1994 EMC 89/336/EEC or
(2) a dual CPU socket machine. If you run an application in such a server computer the RoHS directive do not apply to the computer or to units attached to the computer, including possible cables.

The RoHS directive do not cover a computer and its attached units if the computer is used
(3) as a server, where the design of the computer is intended to provide extremely low unscheduled downtime on the order of minutes/year (similar to the normal availability of main power).

Use for Internet, Telecom, and Infrastructure

The RoHS directive do not apply to network and infrastructure systems such as routing, switching, signalling, transmission of information, or for equipment for management of such networks. The RoHS directive do not apply to equipment that supply network security: Encryption key generation, IV vector generation, Public Key Infrastructure systems (PKI), Virtual Private Networks (VPN:s) or similar equipment.

The RoHS directive do apply to end user terminating equipment such as voice terminals and fax machines.

Stationary Industrial Equipment

Machinery that is built for a particular purpose and cannot be moved to another location, due to that this is not possible, or is built only for a single customer is not covered by the RoHS directive. All electronics included in such equipment is also not covered by the RoHS directive.

High voltage and non-electrical systems

The RoHS directive do not apply to electronics in a machine or unit powered by a voltage higher than 1000V AC or 1500V DC, or if electricity is not the main power source of the unit.

Not covered application areas

- The RoHS directive do not apply to electronics that is used in medicine, health care, in a hospital or in a clinic, or used in a similar application area.
- Scientific use and scientific apparatus and equipment, or equipment used to conduct a scientific experiment, is not covered by the RoHS directive.
- The educational sector: equipment used in universities and in schools or for help in education is not covered by the RoHS directive
- The Automotive industry is covered by a separate directive.
- Aviation and Shipping sectors are not covered.

RoHS-compliant and Lead-Free

"Lead-free" does not necessarily mean "RoHS-compliant", and "RoHS-compliant" does not necessarily mean "lead-free". If any homogeneous material anywhere in the product contains too much lead (mercury, cadmium, hexavalent chromium, polybrominated biphenyls etc. (list of other covered substances), then the entire unit is not "RoHS-compliant". This could be due to any insignificant component or material like some glue, paint, or printing. Similarly, a product that falls in an application area that is not covered can be "RoHS-compliant" and not "lead-free". We see that the same product can be both RoHS-compliant and not RoHS-compliant depending on the application area.

Random Number Generators and RoHS

Based upon our knowledge of our customers various application areas, it is our estimation that almost all application areas, of interest to our customers, fall in one above mentioned exception area, or is not covered at all by RoHS, or our customer live in an area that is not covered. For those areas our current product line is RoHS-compliant now, even though all our current products contain lead.

For customers that wish to support a market where lead-free RoHS compliant products are required, such as home game consoles, cellular telephones, or other end-user consumer electronics, we will manufacture special lead-free variants of our current product line. These products will have a special (new) product name, to make the product easy to separate from our current products, that do contain lead. A customer shall contact us for information on availability, pricing, and minimum order quantity for such lead-free RoHS-compliant products.

An alternative, for customers that prefer to switch to lead-free production right now, is to licence the corresponding unit, and then manufacture the units themselves using a licence contract. Licence customers that now manufacture consumer electronics will be contacted individually by Protego with additional information that apply to you.

We will not stop manufacturing or limit availability of our current product line (i.e. products that contain lead-solder).

This document contain information reflecting our point of view on the RoHS directive at time of writing. You must obtain proper legal advice before finally deciding that a particular product is or is not covered by the RoHS directive. It is expected that in future more detailed and accurate regulations and directives will be available to you.