



Compliance with RoHS regulations

RoHS Directive

European Directive 2002/95/EU of 27.01.2003 (known as RoHS Directive - "Restriction of Hazardous Substances") with its related amendments restricts, from 01.07.2006, the use of certain hazardous substances in electrical and electronic equipment.

European Directive 2011/65/EU of 8 June 2011 (known as "amended RoHS Directive" or "RoHS II") confirms the previous restrictions and extends them to include medical devices and monitoring and control instruments.

Commission Delegated Directive (EU) 2015/863, of 31 March 2015, amends Annex II of directive 2011/65/EU of the European Parliament and of the Council as regards the list of substances subject to restrictions.

Substances subject to restrictions:

- **Lead** (0.1%)
- **Mercury** (0.1%)
- **Hexavalent chromium** (0.1%)
- Polybrominated biphenyls (**PBB**) (0.1%)
- Polybrominated diphenyl ethers (**PBDE** including DecaBDE, OctaBDE, PentaBDE etc.) (0.1%)
- **Cadmium** (0.01%) (with some exceptions, including electrical contacts – exemption 8b)
- **Bis(2-ethylhexyl) phthalate (DEHP)** (0.1%)
- **Butyl benzyl phthalate (BBP)** (0.1%)
- **Dibutyl phthalate (DBP)** (0.1%)
- **Diisobutyl phthalate (DIBP)** (0.1%)

For electrical and electronic devices the new restrictions will apply from 22/07/2019. For in vitro medical devices and monitoring and control instruments the new restrictions will apply from 22/07/2021.

Scope of application of the RoHS Directive

Categories of electrical and electronic devices and instruments under regulatory regimes

- Large household appliances
- Small household appliances
- IT and Telecommunications Equipment
- Consumer Equipment
- Lighting Equipment
- Electrical and electronic devices (except fixed large-scale industrial installations)
- Toys, leisure and sports equipment
- Automatic dispensers
- Medical devices (except all implanted and infected products)
- Monitoring and control devices (for example control panels)
- Other electrical and electronic equipment not included in the above categories (from 22/07/2019).

Compliance of Finder products with RoHS Directive

With regard to the Environmental Management System which imposes strict compliance with the current regulation on the environment, Finder will ensure that it selects the substances and raw materials used for its products very carefully, from the planning stage right up to the manufacturing stage. Between the end of 2004 and the beginning of 2006, all Finder's products were made compliant with the requirements of the RoHS directive and any substances banned under this directive have been removed. This compliance is confirmed also with regard to RoHS Directive II, which has been in force since 2013 and updated by the delegated directive 863 in 2015.

Cadmium - exemption 8b

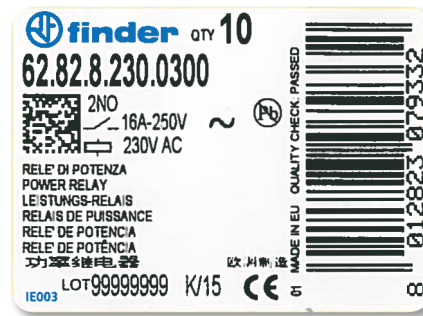
Following the decision by the European Commission 2005/747/EU of 21/10/2005, confirmed with the RoHS II update, Cadmium and its compounds in electrical contacts are exempt from prohibition (exemption 8b). As a consequence relays, with AgCdO contacts are permitted in all applications. However, if required, all Finder relays are available "Cadmium free", that is using electrical contact material which is free of Cadmium (AgNi or AgSnO₂). Also, AgCdO is a good compromise between electrical life and commutation of current for solenoids and inductive loads in general (in DC in particular), for motors and for high resistance loads (for example). Alternative contact materials such as AgNi and AgSnO₂ do not always guarantee the same electrical life performance as AgCdO, depending on the type of load or application (see the technical specifications in our catalogue or on our website).

Availability of products compatible with RoHS or "Cadmium free"

Finder identifies its products using two types of labels.

Example of RoHS-compliant product

The product is free of Lead, Mercury, Exhavalent Chromium, PBB, PBDE, banned phthalates and Cadmium except in contacts.



RoHS compliant

Example of RoHS-compliant and "Cadmium Free" product

The product is free of Lead, Cadmium, Mercury, Exhavalent Chromium, PBB, PBDE, and banned phthalate.



RoHS compliant



No Cadmium

China RoHS

At the end of January 2016, the Chinese Ministry for Industry published the decree for the “restriction on the use of hazardous substances in electrical and electronic equipment” (China RoHS II). The decree, which came into force in China on 1 July 2016, replaces the previous one and has a wider scope of application compared to the equivalent European legislation (Directive 2011/65/EU RoHS2).

In brief, the decree sets out the rules on electrical and electronic products designed for use with a voltage under 1,000 W for AC and 1,500 W for DC, and which work with electrical currents or electromagnetic fields, without exceptions or exemptions of any sort. Similar to the previous decree, the “China RoHS2” decree imposes rules on labelling and on communicating to the market the relevant information regarding the substances used in products.

Finder’s products are compliant with the legislation described above.

Compliance is certified by this symbol on our products and on their packaging.

