

RoHS 2011/65/EU with (EU) 2015/863, (EU) 2017/1011

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RoHS stands for **R**estriction of the use of certain **H**azardous **S**ubstances.

The legal basis for RoHS is the EU Directive **2011/65/EU**, which came into force on 21st July 2011, was published on 1st July 2011 in the official journal of the European Union and defines the restriction of the use of hazardous substances in electrical and electronic equipment. In Germany the RoHS Directive is implemented by the Electrical and Electronic Equipment Regulation (ElektroStoffV).

According to Article 3, Paragraph 1 of the RoHS Directive electrical and electronic equipment means equipment which is dependent on electric currents or electromagnetic fields in order to work properly and equipment for the generation, transfer and measurement of such currents and fields and designed for use with a voltage rating not exceeding 1000 volts for alternating current and 1500 volts for direct current. This excludes electrical and electronic equipment which are named in Article 2, Paragraph 4, such as large-scale fixed installations.

Manufacturers or importers of electrical and electronic equipment ensure that the electrical and electronic equipment placed on the market satisfy the EU requirements, apply CE labels, and provide an EU Declaration of Conformity.

In Annex II of the RoHS Directive six restricted substances and maximum concentration values tolerated by weight in homogeneous materials are listed for electrical and electronic equipment covered by this Directive in Annex I.

The list of restricted substances was changed and four other substances were added as a result of the delegated Directive **(EU) 2015/863** from 31st March 2015 regarding changes to Annex II of the 2011/65/EU Directive regarding the list of substances subject to restriction, which came into power on 22nd June, 2019.

The list of substances subject to restriction now contains ten substances with the following permitted maximum concentration values:

- 0.1 percent in weight (= 1000 ppm) per homogenised material for:
 - Lead
 - Mercury
 - Hexavalent chromium
 - Polybrominated biphenyls (PBB)
 - Polybrominated diphenyl ethers (PBDE)
 - Diethylhexyl phthalate (DEHP)
 - Benzyl butyl phthalate (BBP)
 - Dibutyl phthalate (DBP)
 - Diisobutyl phthalate (DIBP)
- 0.01 percent in weight (= 100 ppm) per homogenised material for:
 - Cadmium

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In Annex III of the RoHS Directive, applications exempted from the restrictions in are defined. Among others, the use of lead as an alloy with the following maximum concentration values is permitted:

- 6a: 0.35 percent in weight (= 3500 ppm) for:
 - Lead as an alloy in steel
- 6b: 0.40 percent in weight (= 4000 ppm) for:
 - Lead as an alloy in aluminium
- 6c: 4.00 percent in weight (= 40000 ppm) for:
 - Lead as an alloy in copper

The objective of the RoHS Directive is to contribute to the protection of human health and the environment including the environmentally sound recovery and disposal of waste of electrical and electronic equipment. This general social aim is regarded by INGUN Prüfmittelbau GmbH as being both worthwhile and indispensable. For this reason, all business decisions and actions of INGUN Prüfmittelbau GmbH are always reviewed in regard to environmental aspects and their implications.

We do not conduct regular tests to check for the presence of restricted substances and analytical monitoring of potential contamination is not part of incoming or outgoing goods inspection. Many substances are ubiquitous and can therefore possibly be detected as contamination in products.

Regardless of the validity of the RoHS Directive for our products we declare, to the best of our knowledge and considering our suppliers' information, that the products placed on the market by INGUN Prüfmittelbau GmbH do not contain substances in the concentration or application which are forbidden according to the Directive 2011/65/EU and its changes, including delegated Directives (EU) 2015/863 and (EU) 2017/1011.

All our products' comply with the RoHS Directive; in some cases existing exceptions (primarily, exceptions 6a, 6b, and 6c) from Annex III of the EU Directive 2011/65/EU apply.

Our products are given the prescribed labelling in accordance with the applicable Directive. With the use of CE labels and the EU Declaration of Conformity, INGUN Prüfmittelbau GmbH declares that the product complies with the essential requirements and Directives of the European regulations, as well as the RoHS regulations.

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Our environmentally-friendly packing - sliding boxes and bags – are made from acrylonitrile butadiene styrene (ABS) and polyethylene (PE).

Regarding the return of components to the manufacturing cycle, INGUN offers its customers the possibility to dispose of used test probes and receptacles free of charge.

The letter was generated electronically and is valid without a signature.

INGUN Prüfmittelbau GmbH

Constance, May 2019

The Management

Amendment:

The terms RoHS-1, RoHS-2 or RoHS-3 are often used in current language. RoHS-1 refers to the EU Directive 2002/95/EU which was repealed with effect from 3rd January, 2013 by EU Directive 2011/65/EU. RoHS-2 refers to the EU Directive 2011/65/EU. RoHS-3 refers to the changes to the EU Directive 2011/65/EU resulting from the EU Directive (EU) 2015/863 with regard to the list of substances subject to restrictions.