



Printed Circuit Boards from Berlin

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As of May 2026

## Restrictions on the Use of specific Hazardous Substances in Printed Circuit Boards made by hmp HEIDENHAIN-MICROPRINT GmbH

This declaration of conformity applies to all unpopulated printed circuit boards produced by hmp HEIDENHAIN-MICROPRINT GmbH.

Any device which is dependent on electric currents or electromagnetic fields in order to work is considered **Electrical and Electronic Equipment** (in short “**EEE**”). In other words, electrical currents or electromagnetic fields must pass through the device in order for at least one of its functions to be performed. This means that purely passive and simply constructed products such as cables or RFID chips are also considered “**EEE**” and fall under the new RoHS Directive.

With the expansion of the scope of application of the RoHS Directive, numerous manufacturers will be faced with the requirements for RoHS-conform products that so far had no points of contact whatsoever with the Directive.

Whether an “**EEE**” is sold to a private end user or to a company in a B2B transaction makes no difference here: in both cases the “**EEE**” is subject to the RoHS Directive.

The use of certain substances, among others in electrical and electronic equipment is restricted or prohibited by various European directives:

RoHS Directive 2011/65/EU (**RoHS** = **R**estriction **o**f the use of certain **H**azardous **S**ubstances in electrical and electronic equipment) including changes made by Directive 2015/863/EU.

The Directive designates the following substances and their compounds as hazardous: Lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) or polybrominated diphenyl ether (PBDE including decabromodiphenyl ether (decaBDE), certain phthalates (DEHP, BBP, and DBP which are SVHC substances).

hmp HEIDENHAIN-MICROPRINT GmbH does not use any of the listed substances in the printed circuit boards manufactured by them and also does not make use of any exceptions in the RoHS Directive.

### End of Life Vehicle Directive 2000/53/EG

The heavy metals mentioned in the **End of Life Vehicle Directive 200/53/EC** (ELV Directive) are a subset of the substances mentioned in the RoHS Directive.

### WEEE Directive 2012/19/EU (**WEEE** = Waste from **E**lectrical and **E**lectronic **E**quipment)

The Directive on waste electrical and electronic equipment restricts the use of certain substances that make recycling more difficult.

Bans on substances according to Annex XVII "Restrictions on the marketing and use of certain hazardous substances, mixtures and articles" of the REACH Regulation 1907/2006/EC as successor of Directive 76/769/EEC, including Directive 2003/11/EC – Use of brominated flame retardants (listed are pentabromodiphenyl ether and octa-bromodiphenyl ether) and 2006/122/EC (listed are perfluorooctanesulfonate (PFOS) and perfluorooctanoic acid (PEOA)) are complied with by hmp HEIDENHAIN-MICROPRINT GmbH.

Our printed circuit boards fulfil the requirements of all the above provisions.

Even though the flame retardants tetrabromobisphenol A and tris(chloropropyl) phosphate are not specifically named in RoHS, we, together with our basic material suppliers, are actively pursuing the suggestions on how to also reduce or substitute these flame retardants published in the environmental research plan of the Federal Ministry for the Environment, Nature Protection and Nuclear Safety, Research Report 204 08 542 (old), 297 44 542 (new).

The percentage by mass of the basic materials containing these flame retardants used by us amounts to less than 0.1%. In addition, tetrabromobisphenol A is three-dimensionally integrated into the epoxy resin matrix and thus biologically not available.

Should you have any questions or suggestions regarding the points mentioned in this letter, you are welcome to contact our Sales, Technology and Environmental Management Departments.

hmp HEIDENHAIN-MICROPRINT GmbH

This document is valid without a signature.

The original document has been signed by Managing director and the Environmental Management Officer.