



Material Safety Data Sheet

Silver Brazing Rods

Revised: 26/06/09

ROTHENBERGER
Werkzeuge Produktion GmbH
Hessisch Lichtenau
Germany

Development and Manufacture of Soldering Materials

1. Substance, preparation and company name

- 1.1 **Material name:** Silver brazing solder (**not a hazardous substance** in the sense of the Hazardous Substances Directive)
- 1.2 **Manufacturer:** **ROTHENBERGER**
Werkzeuge Produktion GmbH
Lilienthalstr. 71 - 87
D - 37235 Hessisch Lichtenau
- 1.3 **Phone:** 05602/9394-637
- 1.4 **Fax:** 05602/9394-641
- 1.5 **Information available from:** Sales

2. Composition / Details of components

- 2.1 **Composition:** Alloy composed of copper, phosphorus and silver
- 2.2 **Chemical characterisation:** Alloy composed of copper, phosphorus and silver
Not a hazardous substance in the sense of the Hazardous Substances Directive
- 2.3 **Odour:** Neutral
- 2.4 **Hazardous substances:** None
- 2.5 **Form:** Rods (round or square)

3. Possible dangers

Not applicable

4. First Aid

- After inhalation: Not applicable
- After skin contact: Not applicable
- After eye contact: Not applicable
- After ingestion: Not applicable
- Information for the doctor: Not applicable

5. Fire fighting

- Suitable fire fighting media: All fire fighting media are suitable
- Fire fighting media that are unsuitable for safety reasons: Not applicable
- Special dangers from the substances, its combustion products or resulting gases: Not applicable
- Special safety equipment for fighting fires: Not applicable
- Additional information: Material is not flammable

6. Accidental spillage

- Personal precautions:	Not applicable
- Environmental protection:	Not applicable
- Method for cleaning / mopping up:	Not applicable
- Additional information:	Not applicable

7. Handling and storage

- Information about safe handling:	Not applicable
- Information about fire and explosion protection:	Not applicable
- Requirements on storage rooms and containers:	Not applicable
- Information for storing with other substances:	Not applicable
- Storage class:	Not applicable

8. Exposure limits and personal safety equipment

8.1 Additional information for designing technical equipment:		Not applicable
8.2 Components with limit values applicable to workplaces that require monitoring:		Not applicable
8.3 Personal safety equipment:	Breathing apparatus	Not applicable
	Hand protection	Not applicable
	Eye protection	Not applicable
	Body protection	Not applicable
	Safety and hygiene	Not applicable

9. Physical and chemical properties

9.1 Appearance:	Form:	Rods
	Colour:	Brown
	Odour:	Neutral
9.2 Safety-relevant data:	pH value:	Not applicable
	Melting range:	710 - 880° C
	Boiling point:	Not applicable
	Flash point:	Not applicable
	Inflammability:	Not applicable
	Fire propagation properties:	Not applicable
	Explosion risk:	Not applicable
	Vapour pressure:	Not applicable
	Density at 20°C:	Approx. 8 g/cm³
	Solubility:	Not applicable
	Viscosity:	Not applicable

10. Stability and reactivity

10.1 Conditions to be avoided:	See 10.3
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10.2 Substances to be avoided:	Not applicable
10.3 Hazardous decomposition products:	Strong acids
10.4 Other details:	Not applicable

11. Details of toxicology

11.1 Toxicological tests

- Acute toxicity:	Not applicable
- Irritation/Caustic effect:	Not applicable
- Sensitisation:	Not applicable
- Effects after repeated, long lasting exposure:	Not applicable
- Other details:	Not applicable

11.2 Experience from practice

- Effects on human beings:	Not applicable
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11.3 General remarks

Not caustic

12. Details of ecology

Silver brazing solder is ecologically safe to the best of our knowledge (suitable for brazing cold and hot water pipes).

13. Disposal information

13.1 Product disposal	<ul style="list-style-type: none"> - Pursuant to the regional regulations. Waste code No. 35315 (other waste containing non-ferrous metals excluding aluminium and manganese waste) - Residue and product waste can also be returned to us.
13.2 Packaging disposal:	- Pursuant to the regional regulations. No special disposal procedures required.

14. Transport information

- Land transport:	ADR/RID/GGVS/GGVE class:
- Internal waterways transport:	ADN/ADNR class:
- Ocean-going ship transport:	IMDG/GGVSea class:
- Air transport:	ICAO/IATA class:

The material is not subject to any of the above regulations since it is not a hazardous substance in the sense of the transport regulations.

15. Regulations**15.1 Identification**

Code letter and hazard code for the product	Not applicable
R phrases	Not applicable
S phrases	Not applicable
Special identification of certain preparations	Not applicable

15.2 National regulations

Information for employment restrictions	Not applicable
Accident V	Not applicable
Classification under the Inflammable Liquids Directive	Not applicable
Technical Regulations for Air	Not applicable
Potential water-polluting class	Not applicable
Other regulations, restrictions and bans	Not applicable

16. Other Information

All the information in this document is based on our current knowledge.

It is intended to describe the goods in terms of the safety requirements for them and therefore does not constitute any assurances of certain properties.