haupa

Safety data sheet

according to 1907/2006/EC, Article 31 and 453/2010/EC

Printing date 06.04.2016 Version number 2 Revision: 31.08.2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: Solder for electronic work acc. to DIN EN 29453 (Art. Nr. 160020_54)

1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available. Application of the substance / the mixture Brazing alloy Soldering flux

1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier:

HAUPA GmbH & Co. KG

Königstraße 165-169 D-42853 Remscheid

Tel.: +49 (0)2191 84 18-0 (MO-WED: 07:30-16:30 h / FR: 07:30-13:30 h)

Fax: +49 (0)2191 84 18 840 E-Mail: sales@haupa.com

www.haupa.com

1.4 Emergency telephone number: Not necessary, due to the fact that the product does not need to be labelled.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The product is not classified according to the CLP regulation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 Void

Hazard pictograms Void

Signal word Void

Hazard statements Void

Additional information:

Contains Rosin. May produce an allergic reaction.

Safety data sheet available on request.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

Description: Mixture: consisting of the following components.

CAS: 7440-22-4 EINECS: 231-131-3 Reg.nr.: 01-2119555669-21	silver	substance with a Community workplace exposure limit	0-<4%
CAS: 7440-50-8 EINECS: 231-159-6 Reg.nr.: 01-2119480154-42	copper	substance with a Community workplace exposure limit	0-<2,2%
CAS: 7439-92-1 EINECS: 231-100-4 Reg.nr.: 01-2119513221-59	lead	substance with a Community workplace exposure limit	33-<40%
CAS: 8050-09-7 EINECS: 232-475-7	Rosin	♦ Skin Sens. 1, H317	<1%

(Contd. on page 2)

Safety data sheet according to 1907/2006/EC, Article 31 and 453/2010/EC

Printing date 06.04.2016 Version number 2 Revision: 31.08.2015

1.1 Product identifier

Trade name: Solder for electronic work acc. to DIN EN 29453 (Art. Nr. 160020 54)

(Contd. of page 1)

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: Take affected persons out into the fresh air. After inhalation: Supply fresh air, consult doctor in case of complaints.

After skin contact:

After contact with the molten product, cool rapidly with cold water.

Do not pull solidified product off the skin.

Seek medical treatment.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: Rinse out mouth and then drink plenty of water.

- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture No further relevant information available.

5.3 Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use respiratory protective device against the effects of fumes/dust/aerosol.

6.2 Environmental precautions: Do not allow to enter sewers/surface or ground water.

6.3 Methods and material for containment and cleaning up: Allow to solidify. Pick up mechanically.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Extractors are required on all machines used for thermal processing or splinter removal processes.

Provide suction extractors if dust is formed.

Any unavoidabledeposit of dust must be regularly removed.

Use appropriate industrial vacuum cleaners or central vacuum systems for dust removal.

Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: *No special requirements*. Information about storage in one common storage facility: *Store away from foodstuffs*.

Further information about storage conditions: Store in dry conditions.

Storage class: 10-13

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

(Contd. on page 3)

Safety data sheet according to 1907/2006/EC, Article 31 and 453/2010/EC

Printing date 06.04.2016 Revision: 31.08.2015 Version number 2

1.1 Product identifier

Trade name: Solder for electronic work acc. to DIN EN 29453 (Art. Nr. 160020 54)

(Contd. of page 2)

8.1 Control parameters

от о от то по	
Ingredients with	limit values that require monitoring at the workplace:
7440-31-5 tin	
MAK (Germany)	vgl.Abschn.llb
7439-92-1 lead	
MAK (Germany)	vgl.Abschn.XII
AGW (EU)	Long-term value: 0,15 mg/m³
7440-22-4 silver	
AGW (Germany)	Long-term value: 0,1 E mg/m³ 8(II);DFG, EU
IOELV (EU)	Long-term value: 0,1 mg/m³
7440-50-8 coppe	er en
MAK (Germany)	Long-term value: 0,01 A mg/m³ als Cu

Regulatory information

MAK (Germany): MAK- und BAT-Liste

AGW (Germany): TRGS 900

recommended monitoring procedures in accordance with 453/2010/EU no. 8.1.2:

7440-50-8 copper: BIA 7755 (D), NIOSH 7301(E), MétroPol Fiche 003(F), MTA/MA-025/A92(ESP) 7440-22-4 silver: ISO 15202(F, E), BIA 8600(D), NIOSH 7301(E)

7439-92-1 lead: NIOSH 7702(E) "lead"

Ingredients with biological limit values: 7439-92-1 lead		
	400 μg/l Untersuchungsmaterial: Vollblut Probennahmezeitpunkt: keine Beschränkung Parameter: Blei	
BAT (EU)	70 μg/dl blood lead	

Regulatory information BGW (Germany): TRGS 903

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Pregnant women should strictly avoid inhalation or skin contact.

Do not eat, drink, smoke or sniff while working.

Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation. Filter P2

Protection of hands:

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

synthetic rubber

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application. Recommended thickness of the material: ≥ 0,2 mm

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

Value for the permeation: Level < 6

Safety data sheet according to 1907/2006/EC, Article 31 and 453/2010/EC

Printing date 06.04.2016 Version number 2 Revision: 31.08.2015

1.1 Product identifier

Trade name: Solder for electronic work acc. to DIN EN 29453 (Art. Nr. 160020 54)

(Contd. of page 3)

As protection from splashes gloves made of the following materials are suitable: Nitrile rubber, NBR

Eye protection: Safety glasses

Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form: Solid

Colour: Silver-coloured
Odour: Characteristic
Odour threshold: Not determined.
pH-value: Not applicable.

Change in condition

Melting point/Melting range:
Boiling point/Boiling range:
Undetermined.
Flash point:
Flammability (solid, gaseous):
Not applicable.
Not determined.
Not determined.

Ignition temperature:

Decomposition temperature: Not determined.

Self-igniting: Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

Lower: Not determined.
Upper: Not determined.
Vapour pressure: Not applicable.
Density at 20 °C: 8,5 g/cm³
Relative density Not determined.
Vapour density Not applicable.
Evaporation rate Not applicable.

Solubility in / Miscibility with

water: Insoluble.

Partition coefficient (n-octanol/water): Not determined.

Viscosity:

Dynamic: Not applicable.
Kinematic: Not applicable.

Solvent content:

 Organic solvents:
 0,0 %

 VOC (EC)
 0,00 %

 Solids content:
 100,0 %

9.2 Other information No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions

Toxic fumes may be released if heated above the decomposition point.

Reacts with acids, alkalis and oxidising agents.

Develops toxic gases/fumes.

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products:

Toxic metal oxide smoke

Leadoxide vapour

Safety data sheet according to 1907/2006/EC, Article 31 and 453/2010/EC

Printing date 06.04.2016 Version number 2 Revision: 31.08.2015

1.1 Product identifier

Trade name: Solder for electronic work acc. to DIN EN 29453 (Art. Nr. 160020 54)

(Contd. of page 4)

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

Primary irritant effect:

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

Additional ecological information:

General notes:

The product contains heavy metals. Avoid transfer into the environment. Specific preliminary treatments are necessary Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation Contact manufacturer for recycling information.

European waste catalogue

17 04 07 mixed metals

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations

SECTION 14: Transport information

14.1 UN-Number

ADR, ADN, IMDG, IATA Void

14.2 UN proper shipping name

ADR, ADN, IMDG, IATA Void

14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA

Class

14.4 Packing group
ADR, IMDG, IATA
Void
14.5 Environmental hazards:

Marine pollutant: No

14.6 Special precautions for user Not applicable.

14.7 Transport in bulk according to Annex II of Marpol

and the IBC Code Not applicable.

Safety data sheet according to 1907/2006/EC, Article 31 and 453/2010/EC

Revision: 31.08.2015 Printing date 06.04.2016 Version number 2

1.1 Product identifier

Trade name: Solder for electronic work acc. to DIN EN 29453 (Art. Nr. 160020 54)

(Contd. of page 5)

UN "Model Regulation":

Void

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

National regulations:

Additional classification according to Decree on Hazardous Materials, Annex II:

Can cause cancer if present as respirable dust.

Information about limitation of use:

Employment restrictions concerning women of child-bearing age must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

Employment restrictions concerning juveniles must be observed.

Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H317 May cause an allergic skin reaction.

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of

Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
SVHC: Substances of Very High Concern

Skin Sens. 1: Skin sensitisation - Category 1