

Material Safety Data Sheet acc. to Regulation (EC) No 1907/2006

Trade name: EASY SOLDER

Version 06

page 1 of 5

Issued

11.04.2014

Reviewed

20.09.2018

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

1.1 Product identifier

Trade name: EASY SOLDER

Delivery forms: flux cored wire, rods

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

Relevant identified uses: soft soldering

Application of the substance / the preparation: Semi-finished goods, Industrial use

1.3 Details of the supplier of the safety data sheet

TECHNIQUA HANDELS GmbH

Hartleitnerstraße 3

A-4653 Eberstallzell

Tel: +43 (0) 7241 213 79

E-Mail: office@techniqua.at

1.4 Emergency telephone number:

Poisoning Information Centre (VIZ), Stubenring 6, A-1010 Vienna, Emergency call

0-24 hrs: +43 1 406 43 43, Office hours: Monday to Friday, 8 to 16 hrs, Tel.: +43 1 406 68 98

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Skin Sens. 1 H317 May cause an allergic skin reaction

Hazard Pictograms



GHS07

Signal Word: Danger

2.2 Label elements

No label required according to Annex I CLP (CLP Annex I 1.3.4).

The product does not present a hazard to human health by inhalation, ingestion or contact with skin or to the aquatic environment in the form in which it is placed on the market, although classified as hazardous in accordance with the criteria of that Annex.

2.3 Other hazards

No information available

3. Composition/information on ingredients

3.2 Mixtures

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Substance name	CAS-No.	EC-No.	Concentration	Hazards
Tin (Sn)	7440-31-5	231-141-8	rest	none
Registration Number:		01-2119486474-28-0000		
Silver (Ag)	7440-22-4	231-131-3	3.3 – 3.7 %	none
Registration Number:		01-2119555669-21-0000		

Material Safety Data Sheet acc. to Regulation (EC) No 1907/2006

Trade name: EASY SOLDER

Version 06

page 2 of 5

Issued

11.04.2014

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Rosin

1,0 – 4,0%

Skin Sens. 1, H317

Additional information:

Full text of H- and EUH-phrases: see section 2 and 16.

4. First aid measures**4.1 Description of first aid measures****General information:** Measures are only required if dusts, vapours or fumes are formed during use.**After inhalation:**

If dust or other particles are generated during processing, it is necessary to provide adequate ventilation and/or respiration protection. If dust/particles have been respired call physician for safety reasons.

After skin contact:

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

Do not pull solidified product away from the skin.

Call a doctor immediately.

After eye contact: Unlikely route of exposure**After swallowing:** Unlikely route of exposure.**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

symptomatic treatment

5. Firefighting measures**5.1 Extinguishing media****Suitable extinguishing agents**

Dry sand

Special powder for metal fires.

For safety reasons unsuitable extinguishing agents Water**5.2 Special hazards arising from the substance or mixture**

Toxic or harmful metal oxides

Nitrogen oxides (NO_x)Carbon monoxide (CO) and Carbon dioxide (CO₂)**5.3 Advice for firefighters****Protective equipment:** Wear self-contained breathing apparatus.**6. Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Use breathing protection against the effects of fumes/dust/aerosol.

6.2 Environmental precautions:

Do not allow large quantities of product to reach sewage system or water bodies.

6.3 Methods and material for containment and cleaning up: Collect mechanically.**6.4 Reference to other sections**

See Section 8 for information on personal protection equipment.

7. Handling and storage**7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

If dust/smoke is developed, avoid breathing dust/smoke.

Make sure that all applicable workplace limits are observed.

Information about protection against explosions and fires: No special measures required.**7.2 Conditions for safe storage, including any incompatibilities****Storage****Requirements to be met by storerooms and containers:** No special requirements.**Information about storage in one common storage facility:** Not required.**Further information about storage conditions:** None**7.3 Specific end use(s)** No further relevant information available.**8. Exposure controls/personal protection**

Material Safety Data Sheet acc. to Regulation (EC) No 1907/2006

Trade name: EASY SOLDER

Version 06

page 3 of 5

Issued

11.04.2014

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20.09.2018

8.1 Control parameters**Components with critical values that require monitoring at the workplace:**

Respirable dusts are liberated only on abrasive treatment (e.g. sanding), but not from the product as delivered.

Occupational exposure limit value

Substance name	CAS No.	Long term occupational exposure limit value	Short term occupational exposure limit value
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Silver (Ag) 7440-22-4 0,1 mg/m3

--- mg/m3

Source: EU RL 2000/39/EG

Silver (Ag) 7440-22-4 0,1 mg/m3

0,8 mg/m3

Source: Germany TRGS 900

Additional information: The lists that were valid during the compilation were used as basis.**8.2 Exposure controls****Additional information about design of technical systems:** No further data; see item 7.**Personal protective equipment****General protective and hygienic measures**

Do not inhale dust / smoke / mist.

Wash hands during breaks and at the end of the work.

Breathing equipment:

If all workplace limits are observed and good ventilation is ensured, no special precautions necessary.

Recommended filter device for short term use: Particle Filter EN 143 Type P2 or P3**Protection of hands:**

Heat resistant gloves

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

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Check the permeability prior to each renewed use of the glove.

To avoid skin problems reduce the wearing of gloves to the required minimum.

Material of gloves

Carry heat insulating gloves by rough soldering work.

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.

Penetration time of glove material

Protective gloves should be replaced at first signs of wear.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Safety glasses recommended during soldering works.**Body protection:** Heat-resistant protective clothing**Limitation and supervision of exposure into the environment**

Do not allow to enter drainage system, surface or ground water.

9. Physical and chemical properties**9.1 Information on basic physical and chemical properties****General Information****Appearance:****Form:** solid in various forms**Colour:** metallic silver**Smell:** odourless**Odour threshold:** not determined**pH-value:** Not applicable.**Change in condition****Melting point/Melting range:** 221 -245°C**Boiling point/Boiling range:** not determined**Flash point:** not applicable**Inflammability (solid, gaseous)** Not determined.**Ignition temperature:****Decomposition temperature:** not applicable**Self-inflammability:** Product is not self igniting.**Danger of explosion:** Product is not explosive.**Critical values for explosion:****Lower:** Not determined.**Upper:** Not determined.

Material Safety Data Sheet acc. to Regulation (EC) No 1907/2006

Trade name: EASY SOLDER

Version 06

page 4 of 5

Issued

11.04.2014

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Oxidizing properties	not classified as oxidising
Vapor pressure:	Not applicable.
Density:	7,4
Relative density	Not determined.
Vapour density (AIR = 1):	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.
9.2 Other information	No further relevant information available.

10. Stability and reactivity**10.1 Reactivity** No further relevant information available.**10.2 Chemical stability** The mixture is stable under anticipated conditions of temperature and pressure.**10.3 Possibility of hazardous reactions** No dangerous reactions known.**10.4 Conditions to avoid** No further relevant information available.**10.5 Incompatible materials:** Strong acids**10.6 Hazardous decomposition products:**

Toxic or harmful metal oxides

Nitrogen oxides (NO_x)Carbon monoxide (CO) and Carbon dioxide (CO₂)**11. Toxicological information****11.1 Information on toxicological effects**

Acute toxicity	no classification.
Skin corrosion/Irritation	no classification.
Eye damage / irritation	no classification.
Sensitisation to the respiratory tract	no classification.
Skin sensitisation	no classification.
Germ cell mutagenicity	no classification.
Carcinogenicity	no classification.
Reproductive toxicity	no classification.
Specific target organ toxicity (single exposure)	no classification.
Specific target organ toxicity (repeated exposure)	no classification.
Aspiration hazard	no classification.
Other information	
No information available.	

12. Ecological information**12.1 Toxicity****Aquatic toxicity:** No information available.**12.2 Persistence and degradability** No information available.**12.3 Bioaccumulative potential** No information available.**12.4 Mobility in soil** No information available.**12.5 Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Other adverse effects** No information available.**13. Disposal considerations****13.1 Waste treatment methods****Recommendation**

Disposal must be made according to official regulations.

Contact manufacturer for recycling information.

European waste catalogue:

Waste disposal key numbers from EWC have to be assigned depending on origin and processing. For that reason waste disposal key numbers different from that listed below may be possible.

06 04 05 wastes containing other heavy metals

Material Safety Data Sheet acc. to Regulation (EC) No 1907/2006

Trade name: EASY SOLDER

Version 06

page 5 of 5

Issued

11.04.2014

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12 01 03 non-ferrous metal filings and turnings

Uncleaned packagings:**Recommendation:** Disposal must be made according to official regulations.**14. Transport information****14.1 UN-Number**

ADR, IMDG, IATA

Void

14.2 UN proper shipping name

ADR, IMDG, IATA

Void

14.3 Transport hazard class(es)

ADR, IMDG, IATA

Class

Void

14.4 Packing group

ADR, IMDG, IATA

Void

14.6 Special precautions for user

Not applicable.

14.7 Transport in bulk according to**Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

Transport/Additional information:

Not dangerous according to the above specifications.

UN "Model Regulation":

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15. Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations****Decree to be applied in case of technical fault:** Directive 96/82/EC does not apply.

Seveso III

not listed

REACH SVHC Candidate List

not listed

Water hazard class (WGK)

not listed

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**16: Other information**

Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP] Article 9 (1).

Relevant H- and EUH-phrases (Number and full text)

H317 May cause an allergic skin reaction

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Reasons for changes:

The Material Safety Data Sheet has been revised. Changes in the respective chapters are characterized in the left side edge by *.

Abbreviations and acronyms:

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 Harmonized 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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

*** Data compared to the previous version altered.**