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

1.1 Product identifier

Trade name/designation Solder Wire lead free S-Sn99Cu1 Flux DINEN 29454 1.1.2.B

Article no. (user): Solder Wire EL99/1 Ø 1mm 25g Order no. T00540 250 99; 100g Order no. T00540 251 99; 250g Order no. T00540 252 99

Other means of identification

SDS-38

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

Relevant identified uses

remark

Soldering Alloy

1.3 Details of the supplier of the safety data sheet

Supplier

Weller Tools GmbH
Carl-Benz-Strasse 2
Germany-74354 Besigheim
Telephone: +49 7143 580-0
Telefax: +49 7143 580-108
E-mail: info@weller-tools.com
Dept. responsible for information: environmental department
Information telephone: +49 7143 580-101
Information telefax: +49 7143 580-108

1.4 Emergency telephone number

GIZ Mainz +49 6131 - 19240 (language - german, english, french)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

remark

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2 Label elements

No data available

2.3 Other hazards

No data available

SECTION 3: Composition / information on ingredients

3.1/3.2 Substances/Mixtures

Description

tin-alloy, Zinn-Legierung

Hazardous ingredients

copper, Kupfer >=0,5 - <=1 %
CAS 7440-50-8
EC 231-159-6
REACHNo 01-2119480154-42

tin / Zinn >=50 - <=100 %
CAS 7440-31-5
EC 231-141-8
REACHNo 01-2119486474-28

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Move victim out of danger zone. In all cases of doubt, or when symptoms persist, seek medical advice.

Following inhalation

Provide fresh air. In case of irritation of the respiratory tract seek medical advice.

Following skin contact

Do not peel solidified product off the skin. After contact with molten product, cool skin area rapidly with cold water. In case of skin irritation, consult a physician.

After eye contact
In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After ingestion
If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed
No data available

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Carbon dioxide (CO2)
Extinguishing powder
Water spray

Unsuitable extinguishing media
High power water jet. Carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters

Special protective equipment for firefighters
In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For emergency responders

Personal protection equipment
Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.2 Environmental precautions
Do not empty into drains or the aquatic environment.

6.3 Methods and material for containment and cleaning up
No data available

6.4 Reference to other sections
Safe handling: see section 7
Disposal: see section 13
Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Measures to prevent aerosol and dust generation
Vapours / aerosols should be extracted by suction directly at point of origin.

7.2 Conditions for safe storage, including any incompatibilities

Hints on joint storage

Materials to avoid
Food and feedingstuffs

7.3 Specific end use(s)
No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

CAS No.	Substance name	LTV	STV	remark
7440-31-5	Tin compounds, inorganic, except SnH4	2 mg/m³		Indicative Occupational Exposure Limit Values, proposal [5] ~ European Union
7440-31-5	Tin compounds, inorganic, except SnH4	2 mg/m³	4 mg/m³	Great Britain (UK)

CAS No.	Substance name	LTV	STV	remark
7440-50-8	Copper, fume, respirable dust	0,2 mg/m³		
				Great Britain (UK)

LTV = long-term occupational exposure limit value
STV = short-term occupational exposure limit value
source: GESTIS International Limit Values (http://limitvalue.ifa.dguv.de/)
Monitoring and observation processes: GESTIS Analytical Methods (http://amcaw.ifa.dguv.de/)

8.2 Exposure controls

Appropriate engineering controls

Technical measures to prevent exposure

Reduce exposure to fume by keeping operating temperatures as low as possible taking into account occupational exposure limits and safe handling temperatures (see Section 7). Where practicable handle within an enclosed process. Alternatively local exhaust ventilation should be considered.

Personal protection equipment

Eye/face protection

Suitable eye protection:
Tightly sealed safety glasses.

Skin protection

Suitable gloves type:
Gloves with long cuffs

Suitable material:
NBR (Nitrile rubber)

Thickness of the glove material >=0,3 mm

additional hand protection measures
Breakthrough times and swelling characteristics of the material must be taken into consideration.

Body protection:

Suitable protective clothing:
Apron

Respiratory protection
Filter P2
Respiratory protection necessary at:
insufficient ventilation

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state
solid

Colour
silver

Odour
odourless

	parameter	Method - source - remark
pH		not determined
Melting point/freezing point	>=217 - <=250 °C	
Initial boiling point and boiling range		not determined
Flash point (°C)		not determined
Evaporation rate		not determined
flammability		not determined
Upper explosion limit		not determined
lower explosion limit		not determined
Vapour pressure		not determined
Vapour density		not determined
Relative density	>=7,3 - <=7,6 g/cm³	

parameter	Method - source - remark
Fat solubility (g/L)	not determined
Water solubility (g/L)	insoluble
Soluble (g/L) in	not determined
Partition coefficient: n-octanol/water	not determined
Auto-ignition temperature	not determined
Decomposition temperature	not determined

9.2 Other information

Solvent content (%)

Value 0 %

remark

VOC (EU) 0,00 %

Solid content (%)

Value 100 %

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No information available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Overall Assessment on CMR properties

Based on existing data the substance does not fullfill the criteria of CMR-substances Cat. 1 and 2 according 67/548/EEC.

SECTION 12: Ecological information

12.1 Toxicity

Additional ecotoxicological information

Additional information

Do not allow uncontrolled leakage of product into the environment.

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

No information available.

12.6 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste code product 170407

hazardous waste No

Waste name
mixed metals
Waste code product 150101
hazardous waste No

Waste name
paper and cardboard packaging
Waste code product 150102
hazardous waste No

Waste name
plastic packaging

remark
Dispose of waste according to "Kreislaufwirtschaftsgesetz (KrWG)". Ask manufacturer for recycling information.

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN-No.	not applicable	not applicable	not applicable
14.2 Proper Shipping Name	not applicable	not applicable	not applicable
14.3 Class(es)	not applicable	not applicable	not applicable
14.4 Packing group	not applicable	not applicable	not applicable
14.5 ENVIRONMENTALLY HAZARDOUS	not applicable	not applicable	not applicable
14.6 Special precautions for user	not applicable	not applicable	not applicable
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	not applicable	not applicable	not applicable

Additional information

All transport carriers
Not a hazardous material with respect to transportation regulations.

SECTION 15: Regulatory information

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

EU legislation

Authorisations and/or restrictions on use

Restrictions of occupation
Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Other regulations (EU)

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]

Classification according to Annex I, Part 1
none

15.2 Chemical Safety Assessment
For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Abbreviations and acronyms
See overview table at www.euphrac.eu
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)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

Key literature references and sources for data

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.