

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

1.1 Product identifier

Trade name/designation WSW SAC L0 / WSW SAC M1 - Solder Wire lead free Sn3.0Ag0.5Cu Flux L0/M1

Other means of identification

SDS-40

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

Relevant identified uses

remark

Solder wire, Lötzinn, étain à souder, estano para soldar, stagno per saldature

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 (German, English, French)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

health hazards

Skin Sens. 1

hazard statements for health hazards

H317 May cause an allergic skin reaction.

health hazards

Resp. Sens. 1

hazard statements for health hazards

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

2.2 Label elements

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

Hazard pictograms



GHS07

GHS08

Signal word

Danger

Hazard statements

hazard statements for health hazards

H317 May cause an allergic skin reaction.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements

Prevention:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P285 In case of inadequate ventilation wear respiratory protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water/.

P304 + P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

Supplemental Hazard information (EU)

health hazard properties

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards

Adverse human health effects and symptoms

Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation). Inhalation of dust may cause irritation of the respiratory system.

Adverse physicochemical effects

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

Other adverse effects

People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this preparation. Processing vapours can irritate the respiratory tracts, skin and eyes.

SECTION 3: Composition / information on ingredients

3.1/3.2 Substances/Mixtures

Description

tin-alloy, Zinn-Legierung, étain-alliage, aleación de estano, lega stannico

Hazardous ingredients

| | |
|----------------------------|-----------------|
| colophony | >=2,3 - <=3,7 % |
| CAS 8050-09-7 | |
| EC 232-475-7 | |
| INDEX 650-015-00-7 | |
| REACHNo 01-2119480418-31-* | |
| Skin Sens. 1, H317 | |
| tin | >=94 - <=96 % |
| CAS 7440-31-5 | |
| EC 231-141-8 | |
| REACHNo 01-2119486474-28-* | |
| Silver, metallic | >=2,8 - <=3,2 % |
| CAS 7440-22-4 | |
| EC 231-131-3 | |
| REACHNo 01-2119555669-21-* | |
| Copper | >=0,4 - <=0,6 % |
| CAS 7440-50-8 | |
| EC 231-159-6 | |
| REACHNo 01-2119480154-42-* | |

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Remove contaminated, saturated clothing immediately. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately.

Following inhalation

Provide fresh air. In case of respiratory tract irritation, consult a physician.

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

Foam

Dry extinguishing powder

Sand

Unsuitable extinguishing media

Water

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide

Carbon dioxide (CO₂)

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 non-emergency personnel

Personal precautions

Use personal protection equipment. Be aware that gases can spread at ground level (heavier than air) and pay attention to the wind direction.

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. Do not allow to enter into soil/subsoil.

6.3 Methods and material for containment and cleaning up

No data available

6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff. Wash hands and face before breaks and after work and take a shower if necessary.

Protective measures

Advices on safe handling

Use only in well-ventilated areas. Do not breathe gas/fumes/vapour/spray.

Avoid:

Skin contact

Eye contact

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

Storage class

13

Further information on storage conditions

Keep only in the original container in a cool, well-ventilated place.

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 |
|-----------|------------------|-----------------------|-----|--|
| 7440-22-4 | Silver, metallic | 0,1 mg/m ³ | | |
| 7440-22-4 | Silver, metallic | 0,1 mg/m ³ | | Great Britain (UK) Bold-type: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] ~ European Union |

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

Technical measures and the application of adequate working methods take priority over the use of personal protection equipment.

Personal protection equipment

Eye/face protection

Suitable eye protection:

Tightly sealed safety glasses.

Body protection:

Suitable protective clothing:

Apron

Respiratory protection

If technical suction or ventilation measures are not possible or are insufficient, protective breathing apparatus must be worn.
 Filter P2

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 - <=221 °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 | | <0,1 mbar | Temperature 20 °C |
| Vapour density | | 6 | 20 °C |
| Relative density | | 7,4 g/cm ³ | Temperature 20 °C |
| Fat solubility (g/L) | | | not determined |

| parameter | Method - source - remark |
|--|--------------------------|
| 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

Materials to avoid

Acid

Oxidising agent, strong

10.6 Hazardous decomposition products

Carbon dioxide

Carbon monoxide

Gases/vapours, irritant

SECTION 11: Toxicological information

11.1 Information on toxicological effects

skin corrosion/irritation

Assessment/classification

Irritant.

Respiratory or skin sensitisation

Skin sensitisation

Assessment/classification

May cause sensitization by inhalation and skin contact.

SECTION 12: Ecological information

12.1 Toxicity

Assessment/classification

No data available

12.2 Persistence and degradability

Assessment/classification

not readily biodegradable (according to OECD criteria)

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

Appropriate disposal / Product

Dispose of waste according to applicable legislation. Waste disposal according to EC directives 75/442/EEC and 91/689/EEC in the corresponding versions, covering waste and dangerous waste.

Waste code product 170406

hazardous waste No

Waste name

Tin

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]

Entry in Annex I, Part 2

none

15.2 Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

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

H317 May cause an allergic skin reaction.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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.