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

remark
*According Art. 31 amendments - No 1272/2008/EC, 453/2010/EC, 830/2015/EC

1.1 Product identifier

Trade name/designation WSW SAC L0_M1 - Solder Wire lead free Sn3.0Ag0.5Cu Flux L0/M1 3.5%
Unique Formula Identifier UFI: not applicable

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

Sector of uses [SU]
SU16 Manufacture of computer, electronic and optical products, electrical equipment

1.3 Details of the supplier of the safety data sheet

Importer/Only Representative
Apex Tool Group UK Ltd; C/O TMF Group
13th Floor, One Angel Court
Vereinigtes Königreich-EC2R 7HJ London
Telephone: +44 740 8836 404
E-mail: UKCustomer-Service@ApexToolGroup.com

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
Department responsible for information: environmental department
Information telephone: +49 7143 580-101
Information telefax: +49 7143 580-108

1.4 Emergency telephone number

* +44 740 8836 404

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.

2.2 Label elements

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

Hazard components for labelling
Kolophonium / rosin / colophony / colophane / colofonia

Hazard pictograms



GHS07

Signal word
Warning

Hazard statements

hazard statements for health hazards
H317 May cause an allergic skin reaction.

Precautionary statements

General:
P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

Prevention

P280 Wear protective gloves and eye/face protection.

Disposal:

P501 Dispose of contents/container to an appropriate recycling or disposal facility.

Special rules for supplemental label elements for certain mixtures

EUH208 Contains . May produce an allergic reaction.
Kolophonium/rosin/colophony/colophane/colofonia

Special rules on packaging

The product is classified according to CLP regulation. A label is not required (CLP Att. I, 1.3.4.1). Information acc. 1.3.4.2 in Chapter 2.2

Das Produkt ist gemäß CLP-Verordnung eingestuft. Ein Kennzeichnungsetikett ist nicht erforderlich (CLP Anh. I, 1.3.4.1). Information nach 1.3.4.2 in Abschn.2.2

Le produit est classé conformément au règlement CLP. Une étiquette n'est pas nécessaire (CPL A. I, 1.3.4.1). Information selon 1.3.4.2 dans la section 2.2

El producto está clasificado según el reglamento CLP. No se requiere una etiqueta (CLP Att. I, 1.3.4.1). Información según 1.3.4.2 en el Capítulo 2.2

2.3 Other hazards

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 mixture. Processing vapours can irritate the respiratory tracts, skin and eyes.

SECTION 3: Composition / information on ingredients

3.1 Substances (not applicable)

3.2 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-*
Aquatic Chronic 2, H411

Additional information

Full text of H- and EUH-statements: see section 16.
H411 NA, CLP/A. VI Index No. 029-024-00-X

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

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.

Following 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
Full water jet

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.

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
Do not store together with:
Food and feedingstuffs

Storage class
13

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/m³		Great Britain (UK)
7440-22-4	Silver, metallic	0,1 mg/m³		Bold-type: Indicative Occupational Exposure Limit Value (IOELV) ~
7440-50-8	Copper, fume, respirable dust	0,2 mg/m³		European Union
8050-09-7	Rosin-based solder flux fume (colophony)	0,05 mg/m³	0,15 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/)

remark
7440-50-8 Copper, fume, respirable dust LTV 0,01 mg/m³ Spain
*

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:
Eye glasses with side protection

Skin protection

Suitable material:
NBR (Nitrile rubber)

Thickness of the glove material >=0,2 mm

Body protection:

Suitable protective clothing:
Apron

Respiratory protection

Additional measures for respiratory protection
Half-face mask or quarter facepiece: maximum use concentration for substances with exposure limits: P1 filter: up to a max. of 4 times the exposure limit. P2 filter: up to a max. of 10 times the exposure limit. P3 filter: up to a max. of 30 times the expo.

remark
If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

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
Melting point/freezing point	>=217 - <=221 °C		
Boiling point or initial boiling point and boiling range			not determined
flammability			not determined
Upper explosion limit			not determined
lower explosion limit			not determined
Flash point (°C)			not determined
Auto-ignition temperature			not determined
Decomposition temperature			not determined
pH			not determined
Kinematic viscosity			not determined
Water solubility			insoluble
Soluble (g/L) in			not determined
Fat solubility			not determined
Partition coefficient: n-octanol/water			not determined
Vapour pressure	<0,1 mbar	Temperature 20 °C	
Density and/or relative density	7,4 g/cm³	Temperature 20 °C	
Relative vapour density	6		20 °C
particle characteristics			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
Thermal decomposition can lead to the escape of irritating gases and vapours.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

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

skin corrosion/irritation
ingredient colophony

Assessment/classification
Irritant.

Respiratory or skin sensitisation

Skin sensitisation

Assessment/classification
May cause sensitization by inhalation and skin contact.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity

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

Reproductive toxicity

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

STOT-single exposure

STOT SE 3

Irritation to respiratory tract

Assessment/classification
May cause respiratory irritation.

11.2 Information on other hazards

Endocrine disrupting properties

remark
This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

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 Endocrine disrupting properties

remark
This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7 Other adverse effects
No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

remark
The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Recycle according to official regulations.

Directive 2008/98/EC (Waste Framework Directive)

Before intended use

Waste code product 170407
hazardous waste No

Waste name
mixed metals

Recovery operations
R4 Recycling/reclamation of metals and metal compounds

After intended use

Waste code packaging 150102
hazardous waste No

Waste name
plastic packaging

Waste code packaging 150101
hazardous waste No

Waste name
paper and cardboard packaging

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	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 Environmental hazards	not applicable	not applicable	not applicable
14.6 Special precautions for user	not applicable	not applicable	not applicable
14.7 Maritime transport in bulk according to IMO instruments	not applicable	not applicable	not applicable

Additional information

All transport carriers
No dangerous good in sense of these transport 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]

Named dangerous substances
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

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]
See SECTION 2.1 (classification).

Indication of changes
* Data changed compared with the previous version

Relevant R-, H- and EUH-phrases (Number and full text)
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

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.