

# Safety Data Sheet

According to Regulation (EC) No. 1907/2006 with its amendment Regulation (EU) 2015/830



Revision Date: 21/10/2022

Revision: 11.0

Previous Issue: 24/03/2022

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

### 1.1. Product Identifier

Product Name High Purity Bar Solder (RoHS Compliant)

### 1.2. Relevant Identified uses of the substance or mixture and uses advised against

Description Bar Solder for solder baths and pots. For Industrial Use only.

### 1.3. Details of the supplier of the safety data sheet

Company	Warton Metals Limited
Address	Grove Mill Commerce Street Haslingden Lancashire BB4 5JT England
Web	<a href="http://www.warton-metals.co.uk">www.warton-metals.co.uk</a>
Telephone	01706 218888
Fax	01706 221188
Email	<a href="mailto:sales@warton-metals.co.uk">sales@warton-metals.co.uk</a>
Email of competent person	<a href="mailto:sds@warton-metals.co.uk">sds@warton-metals.co.uk</a>

### 1.4. Emergency telephone number

Emergency Telephone Number +44(0)1706 218888 (8am-5pm Monday-Friday)

## SECTION 2: Hazards Identification

### 2.1. Classification of the substance or mixture

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

Classification- EU Directive	
Main Hazards	See Section 11 for more detailed information on health effects and symptoms.



### 2. Label Elements EC 1272/2008 (CLP/GHS)

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

GHS Symbols No GHS

## SECTION 3: Composition/Information on ingredients

### 3.1. This material is defined as a mixture

Chemical Name	CAS No	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Tin	7440-31-5	231-141-8	01-2119486474-28-xxxx	1-100	-
Silver	7440-22-4	231-131-3	01-2119555669-21-xxxx	<5	-
Copper	7440-50-8	231-159-6	01-2119480154-xxxx	<5	-
Antimony	7440-36-0	231-146-5	01-2119475609-24-xxxx	<6	-
Nickel	7440-02-0	231-111-4	01-2119438727-29-xxxx	<1	H317: Skin Sens 1 
Germanium	7440-56-4	231-164-3	01-2120761271-61-xxxx	<1	H361: Repr. 2 H373: STOT RE 2 H412: Aquatic Chronic 3 
Phosphorus	7723-14-0	231-768-7	01-2119448009-39-xxxx	<1	-

The classifications listed indicate the potential hazards of the ingredients, Full Risk and Safety Phrases in Section 16.

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## SECTION 4: First Aid Measures

### 4.1. Description of first aid measures

Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a doctor. Keep affected person warm and at rest.
Eye contact	Flush eyes with plenty of water. Make sure contaminated water washes away from the face. Make sure the eyelids are properly washed.
Skin contact	Wash off with soap and plenty of water. Always wash hands before eating, drinking, biting nails or smoking, when using solder products. Molten metal – cool burn site immediately with clean cold water and seek medical attention.
Ingestion	Rinse mouth with water. Will irritate gastric tract. Do not induce vomiting. Never give anything by mouth to an unconscious person. Obtain medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

	None known
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### 4.3 Indication of any immediate medical attention and special treatment needed

	Obtain medical attention for metal burns.
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## SECTION 5: Firefighting Measures

### 5.1. Extinguishing Media

	Use extinguishing media appropriate to the surrounding fire conditions (Dry chemical, carbon dioxide, water spray or foam)
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### 5.2. Special hazards arising from the substance or mixture

	None
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### 5.3. Advice for Fire Fighters

	Wear self-contained breathing apparatus for firefighting if necessary.
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## SECTION 6: Accidental Release Measures

### 6.1. Personal precautions, protective equipment and emergency procedures

	Use personal protective equipment. Avoid breathing fumes. Ensure adequate ventilation of the working area. Evacuate personnel to safe area.
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### 6.2. Environmental precautions

	Prevent further leakage. Do not let product enter drains. Discharge into the environment must be avoided.
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### 6.3. Methods and material for containment and cleaning up

	Sweep up and shovel. Keep in suitable closed containers for disposal.
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### 6.4. reference to other sections

	For disposal see section 13.
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## SECTION 7: Handling and Storage

### 7.1. Precautions for safe handling

	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Fumes produced during reflow should be extracted away from the breathing zone of operators. Wash hands with soap and warm water after handling soldering products. Adopt best manual handling considerations when handling, carrying and dispensing.
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### 7.2. Precautions for safe storage, including and incompatibilities

	Keep in a cool, dry, well ventilated area. Store in correctly labelled boxes.
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### 7.3. Specific end use(s)

	See section 1.2.
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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Exposure Limit Values

Tin	2 mg/ m <sup>3</sup> 8 hour Time Weighted Average, OEL
Silver	Not applicable
Copper	Not applicable

### 8.2. Exposure Controls

8.2.1 Appropriate engineering controls	Ensure adequate ventilation of the working area. Use process enclosures, local exhaust ventilation or other engineering controls to keep the worker below recommended or statutory limits. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the work day.
8.2.2. Individual protection measures	Wear protective clothing.
Eye/face protection	Use safety goggles
Skin / Hand protection	Handle with gloves. Gloves must be inspected prior to use. When handling dross or molten metal, heat resistant gloves should be used. Wash and dry hands.
Biological Standards	None necessary

## SECTION 9: Information on basic physical and chemical properties

State	Solid
Colour	Grey
Odour	Metal
pH	No data available
Melting point	See table below for melting points for specific alloys
Freezing point	Not available
Boiling point	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability limits	Not available
Vapour flammability	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	Not available
Fat solubility	Not available
Partition coefficient	Not available
Autoignition temperature	Not available
Viscosity	Not available
Solubility	Insoluble in water

Alloy Table- please refer to your alloy supplied

Alloy Name	Alloy Breakdown	Melting Temperature °C
Tin	Sn	232
96S	Sn96.5Ag3.5	221
Sn96.3Ag3.7	Sn96.3Ag3.7	221
96/4	Sn96Ag4	221
98S	Sn98/Ag2	221-226
TSC	Sn95.8Ag3.5Cu0.7	217-219
SAC405	Sn95.5Ag4Cu0.5	217-219
LM10A	Sn87Ag10Cu3	214-275
Alloy 403+	SnCu0.7Ni0.05Ge	227
Alloy 403g+	SnCu0.7Ni0.05Ge	227
Alloy 403p+	SnCu0.7Ni0.05GeP	227

Alloy Name	Alloy Breakdown	Melting Temperature °C
SAC305	Sn96.5Ag3Cu0.5	217-219
SAC300	Sn97Ag3	217-219
SAC3	Sn96.7Ag2.8Cu0.5	217-219
SAC2	Sn97.5Ag2Cu0.5	217-219
SAC1	Sn99.2Ag0.3Cu0.5	217-219
97C	Sn97Cu3	230-250
99C	Sn99.3/Cu0.7	227
95A	Sb4.5-5.5/Sn Remainder	236-243
SACXP0307*	Sn/Cu0.7/Ag0.3	217
Sc100e*	Cu0.5-0.7Sn Remainder	227

\*Features anti-oxidant technology

Key: Sn-Tin, Ag-Silver, Cu-Copper, Sb-Antimony, Ni-Nickel, Ge-Germanium, P-Phosphorus

### 9.2. Other Information

Conductivity	No data available
Surface Tension	No data available
Gas group	No data available

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## SECTION 10: Stability and Reactivity

10.1. Reactivity	No data available on this product
10.2. Stability	Product is stable
10.3. Possibility of Hazardous Reactions	Not applicable
10.4. Conditions to avoid	Not applicable
10.5. Incompatible Materials	Do not place wet or damp metal into a molten bath of solder –this could cause explosion.
10.6 Hazardous Decomposition Products	No data available

## SECTION 11: Toxicological Information

11.1. Information on toxicological effects	
Skin corrosion/irritation	Not applicable
Eye irritation	Not applicable
Inhalation	Not applicable
Ingestion	Not applicable
Germ cell mutagenicity	Not applicable
Carcinogenicity	Not applicable
Reproductive toxicity	Not applicable
Potential health effects	Not applicable

## SECTION 12: Ecological Information

12.2. Persistence and degradability	Not applicable
12.3. Bio accumulative potential	No data available
12.4. Mobility in soil	Not applicable
12.5. Results of PBT and vPvB assessment	No data available
12.6 Other adverse effects	No data available

## SECTION 13: Disposal Considerations

General Information	Dispose of in compliance with all local and national regulations.
Disposal methods	Waste solder should be placed in metal tins and returned to Warton for disposal. Disposal should be in line with local and national regulations. Contact a licensed waste disposal company
Disposal and Packaging	No data available
Further Information	For disposal with the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used. 10 04 02 Dross skimmings from primary or secondary production.

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## SECTION 14: Transport Information

### Hazard Pictograms

Not hazardous for transport

### 14.1. UN Number

-

### 14.2. UN Proper Shipping Name

-

### 14.3. Transport Hazard Class

ADR/RID

-

Subsidiary risk

-

IMDG

-

Subsidiary risk

-

IATA

-

Subsidiary risk

-

### 14.4. Packing Group

Packing Group

-

-

### 14.5. Environmental Hazards

Environmental hazard

-

Marine Pollutant

-

### ADR/RID

Hazard ID

-

Tunnel Category

-

### IMDG

Ems Code

-

### IATA

Packing Instruction (Cargo)

-

Maximum quantity

-

Packing Instruction (Passenger)

-

Maximum quantity

-

## SECTION 15: Regulatory Information

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

#### EU Regulation (EC) No. 1907/2006 (REACH)

Restrictions on use

None.

Substances of very high concern

None.

### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## SECTION 16: Other Information

### Other Information

This product is REACH and RoHS compliant.

### Further Information

The information supplied in this safety data sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information related only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.