

Safety Data Sheet

According to 1907/2006/EC, Article 31 REACH

Warton Metals Limited
Grove Mill,
Commerce Street, Haslingden
Lancashire BB4 5JT UK

Tel: +44 (0) 1706 218888
Fax: +44 (0) 1706 221188
Web: www.warton-metals.co.uk



Last Issue 11/2012
Revision 4.1
Revision Date 02/2013

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

1.1. Product Identifier

Product Name	Omega II Rosin Free No Clean Cored Solder Wire (RoHS Compliant) Tin, Tin/Silver, Tin/Silver/Copper Alloys (see table in section 9 for alloys available).
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1.2. Relevant Identified uses of the substance or mixture and uses advised against

Description	No Clean Solder Wire for solder wire for manual soldering.
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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	www.warton-metals.co.uk
Telephone	01706 218888
Fax	01706 221188
Email	sales@warton-metals.co.uk
Email of competent person	sds@warton-metals.co.uk

1.4. Emergency telephone number

Emergency Telephone Number	+44(0)1706 218888 (8am-5pm Monday-Friday)
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SECTION 2: Hazards Identification

The hazards given are for the use of the solder wire. This product does not contain rosin and is rosin/colophony free.


2.1. Classification of the substance or mixture

Classification- EU Directive 67/548/EEC 1999/45/EC Main Hazards Inhalation Ingestion Skin Contact Eye Contact Environmental	When solder is heated in normal use, the fumes generated may be irritating. May be harmful if swallowed. Molten metal may cause severe damage to the skin. Flux can spit and damage the eye. No information available.
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2.2. Label Elements EU Directive 67/548/EEC 1999/45/EC

Symbols Risk Phrases Safety Phrases	R36 – Irritating to eyes S24 – Avoid Contact with skin S37 – Wear suitable gloves
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Label Elements EC 1272/2008 (CLP/GHS)

Classification- EC 1272/2008 Main Hazards	
GHS Symbols	
Hazard Statements Precautionary Statements	Signal Word: Warning H319: Causes serious eye irritation P280: Wear protective gloves

SECTION 3: Composition/Information on ingredients

3.1. This material is defined as a mixture 67/548/EEC/1999/45/EC

Omega II Rosin Free No Clean Cored Solder Wire Lead Free (Rohs Compliant) Tin, Tin/Silver, Tin/Silver/Copper Alloys

Chemical Name	CAS No	EC No.	REACH Registration Number	Conc. (% w/w)	DSD Classification
Tin	7440-31-5	231-141-8	01-2119486474-28-xxxx	1-100	Not classified
Silver	7440-22-4	231-131-3	01-2119555669-21-xxxx	<5	Not classified
Copper	7440-50-8	231-159-6	01-2119480154-xxxx	<2	Not classified
Carboxylic Acid C4-C6	68603-87-2	271-678-5	Not available	<2.5	R36

For actual alloy breakdown, please see section 9. Information on basic physical and chemical properties

SECTION 4: First Aid Measures

4.1. Description of first aid measures

Inhalation	Inhalation of solder flux fume (at normal use temperatures) may cause respiratory distress. Remove at once to fresh air. Keep warm and at rest. If breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If not breathing, give artificial respiration. If unconscious place in the recovery position and get medical attention immediately.
Eye contact	Solder flux fumes may irritate eyes, Flush eyes with plenty of water. Make sure contaminated water washes away from the face and clear upper and lower eyelids. Continue to rinse for 10 minutes. The flux may spit during soldering. In cases where spitting flux has entered the eye seek medical attention.
Skin contact	If any skin rash develops seek medical attention. Wash off with soap and plenty of water. After contact with molten metal, flood the area with cold water and get medical attention if required.
Ingestion	Rinse the mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. If unconscious place in the recovery position. Obtain medical attention immediately.

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

Inhalation	No information available
Eye Contact	May cause irritation to skin.
Skin Contact	May cause irritation to sensitive individuals.
Ingestion	No information available.

4.3 Indication of any immediate medical attention and special treatment needed

	Seek medical attention if any symptoms persist
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SECTION 5: Firefighting Measures

5.1. Extinguishing Media

	Use extinguishing media appropriate to the surrounding fire conditions. Water spray, dry chemical or carbon dioxide. Sand may be used for small fires.
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5.2. Special hazards arising from the substance or mixture

	Inhalation of the flux fumes given off at soldering temperatures may irritate the nose and throat.
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5.3 Advice for Fire Fighters

	Do not use water jet. Wear full protective clothing and self contained breathing apparatus operating in the positive pressure mode.
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SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

	Use personal protective equipment. Avoid inhalation of any fume from the hot solder. Avoid contact with hot product and wash hands after handling and before eating, drinking or smoking. Ensure adequate ventilation of the working area.
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6.2. Environmental precautions

	Do not allow product to enter drains, soil, waterways and sewers. Prevent further spillage if safe. Ensure solder is collected in suitable containers for disposal accordance with local and national legislation. Refer to section 13 for disposal.
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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. Observe personal hygiene methods.
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6.4. reference to other sections

	See section 2,8,13 for further information
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SECTION 7: Handling and Storage

7.1. Precautions for safe handling

	Ensure adequate ventilation of the working area. The fumes produced during soldering should be extracted away from the breathing zone of the operators using properly designed efficient, well-maintained, local exhaust ventilation. See HSG 37
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and INDG 249, HSE publications for further information. Put on appropriate protective equipment (latex gloves or similar). Wash hands with soap and warm water after handling soldering products. Adopt best manual handling considerations when handling, carrying and dispensing. Keep out of reach of children.

7.2. Precautions for safe storage, including and incompatibilities

Keep in a cool, dry, well ventilated area. Keep away from direct sunlight. Keep away from food and drink.

7.3. Specific end use(s)

Solder wire for manual soldering.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Exposure Limit Values

Tin	2 mg/ m ³ 8 hour Time Weighted Average, UK EH40
Silver	0.1 mg/ m ³ 8 hour Time Weighted Average, UK EH40
Copper	0.2mg/m ³ 8 hour Time Weighted Average, UK EH40
Carboxylic Acid	No occupational exposure limit value.

8.2. Exposure Controls

8.2.1 Appropriate engineering controls	To achieve adequate control, as required by the COSHH Regulations, extraction should be used to reduce exposure. Extraction should be properly maintained and in good working order. Please use health and safety guidelines to choose suitable extraction.
8.2.2. Individual protection measures	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the work day. Wash contaminated clothing before re-use.
Eye/face protection	Ensure that eye wash stations are close to the work area.
Skin / Hand protection	Wear protective clothing. Disposable vinyl gloves. Use safety goggles.
Biological Standards	No data available
Environmental exposure controls	The material possesses minimal risk to the environment.

SECTION 9: Information on basic physical and chemical properties

State	Solid wire
Colour	Grey
Odour	Mild
pH	No data available
Melting point	See section 9 for individual 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
96/4	Sn96Ag4	221
98S	Sn98/Ag2	221-226
TSC	Sn95.8Ag3.5Cu0.7	217-219
SAC405	Sn95.5Ag4Cu0.5	217-219
SAC305	Sn96.5Ag3Cu0.5	217-219

Alloy Name	Alloy Breakdown	Melting Temperature °C
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/Cu1	227

Key: Sn-Tin, Pb-Lead, Ag-Silver, Cu-Copper

9.2. Other Information

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

SECTION 10: Stability and Reactivity

10.1. Reactivity	
	No data available on this product
10.2. Stability	
10.3. Possibility of Hazardous Reactions	
	Solder will react with strong oxidising agents.
10.4. Conditions to avoid	
	None
10.5. Incompatible Materials	
	Strong oxidizing agents
10.6. Hazardous Decomposition Products	
	Under normal conditions of use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological Information

11.1. Information on toxicological effects	
Inhalation	Fumes should be extracted away from the operator.
Ingestion	Skin contact should be avoided.
Skin Contact	Fumes may irritate the eyes.
Eye contact	No information available
Target Organs	No data available.
Germ cell mutagenicity	No data available
Carcinogenicity	No data available

SECTION 12: Ecological Information

12.1. Toxicity	
	No data available
12.2. Persistence and degradability	
	No data available
12.3. Bioaccumulative potential	
	No data available
12.4. Mobility in soil	
	No data available
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. Empty containers may contain product residue. The product container must be disposed of in a safe way.
Disposal methods	
	Contact a licensed waste disposal company
Disposal and Packaging	
	Empty containers can be sent for disposal and recycling.
Further Information	
	For disposal with the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used. 10 08 11 Dross and skimmings.

SECTION 14: Transport Information

Hazard Pictograms	
	Not hazardous for transport
14.1. UN Number	
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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	-
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14.5. Environmental Hazards

Environmental hazard	No
Marine Pollutant	No

ADR/RID

Hazard ID	-
Tunnel Category	-

IMDG

Ems Code	-
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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

15.2 Chemical Safety Assessment – A chemical safety assessment has not been carried out for the mixture.

Regulations	
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Commission regulation (EU) No 453/2010 of the 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Regulation, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94. Council Directive 76/769/EEC and Commission Directive 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

Regulation (EC) No 1907/2006 of the European Parliament and of the council of 18 December 2006 concerning the Regulation, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Directive (EEC) No 793/93 and Commission Regulation (EC) No 1488/94. Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC. (93/105/EC) and 2000/21/EC.

The Health & Safety at Work Act 1974

The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No.2677) as amended.

Solder Fume and You INDG248(rev)

MDHS83 Resin acid in rosin (colophony) solder flux fume HSE Books ISBN 0 7176 1363 1

SECTION 16: Other Information

Other Information	None
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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.
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