



SAFETY DATA SHEET

According to Safe Work Australia

Printing date 22.05.2014

Revision: 22.05.2014

1 . IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product Name: ELECTRICAL SOLDER - Sn96/Cu3.9/Ag0.1 (1.6mm RESIN CORE) - 211523

Recommended Use of the Chemical and Restriction on Use: Resin flux core solder wire

Details of Manufacturer or Importer:

Primus Australia Pty Ltd
3/20 Enterprise Drive
Bundoora VIC 3083

Phone Number: 03 9468 4400

Emergency telephone number: National Poison Information Centre: 13 11 26

2 . HAZARDS IDENTIFICATION

Hazardous Nature: The product is not classified as hazardous according to the Globally Harmonized System (GHS).

Label Elements

Signal Word Void

Hazard Statements Void

3 . COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Characterisation: Substances

CAS No. Description
7440-31-5 tin 90-100%

Chemical Characterization: Mixtures

Hazardous Components:

7440-50-8	Copper	1-5%
7440-22-4	Silver	0-1%

Additional information: Unlisted percentages are non-hazardous stabilizers, and water.

4 . FIRST AID MEASURES

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Contact with molten material will cause severe burns.

Eye Contact:

In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention. Contact with molten material will cause severe burns.

Ingestion: Seek immediate medical attention.

5 . FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

Carbon dioxide or dry chemical. Do not use water on molten metal. Large fires may be flooded with water from a distance

Specific Hazards Arising from the Chemical:

Harmful organic fumes and toxic oxide fumes may be formed at elevated temperatures.

The solid metal form is not a fire hazard. However, when material is in the form of dust and exposed to heat and flames may present a moderate fire or explosion hazard. Hazards also exist when this product is involved

(Contd. on page 2)



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(Contd. of page 1)

in chemical reactions or in contact with powerful oxidizers.

Special Protective Equipment and Precautions for Fire Fighters:

Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.

6 . ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear Safe Work Australia approved safety glasses or goggles, rubber gloves and protective clothing (overall). Evacuate all non-essential personnel from affected area. Do not generate dust. Provide adequate ventilation.

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up:

Pick up solids and put in container for reuse or recycling. Do not sweep, use vacuum. Reduce airborne dust by moistening with water. Provide adequate ventilation.

7 . HANDLING AND STORAGE

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Users should wear protective gloves and glasses when handling solder paste. Soldering should be conducted in a well-ventilated area.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage:

Store in a cool, dry and well ventilated area. Protect from humidity. Keep away from strong oxidizing agents, acids and alkalies.

8 . EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards:	
7440-31-5 tin	
NES	STEL: 0.2** mg/m ³ TWA: 2* 0.1** mg/m ³ *metal, oxide, inorg. comp.; **org. comp.(as Sn):Sk
7440-50-8 Copper	
NES	TWA: 1* 0.2** mg/m ³ *dust&mists **fume
7440-22-4 Silver	
NES	TWA: 0.1* 0.01** mg/m ³ *metal; **soluble comp. (as Ag)

Engineering Contols:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapour below occupational exposure standards.

Personal Protective Equipment (PPE):

Respiratory Protection:

Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. See Australian Standards AS/NZS 1715 and 1716 for more information.

(Contd. on page 3)



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(Contd. of page 2)

Skin Protection:

Rubber gloves and protective clothing. See Australian Standards AS/NZS 2161, 2210.1 and 2210.2 for more information.

Eye and Face Protection:

Safety glasses with top and side shields or goggles. See Australian Standards AS/NZS 1336 and 1337 for more information.

9 . PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Form:	Solid metal
Colour:	Metalic
Odour:	Odourless
Odour Threshold:	Not applicable
pH-Value:	Not applicable.
Melting point/Melting range:	No information available
Initial Boiling Point/Boiling Range:	No information available
Flash Point:	Not applicable.
Flammability:	Product is not flammable.
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	Not applicable
Upper:	Not applicable
Vapour Pressure:	Not applicable.
Relative Density:	No information available
Vapour Density:	Not applicable.
Evaporation Rate:	Not applicable.
Solubility in Water:	Insoluble

10 . STABILITY AND REACTIVITY

Possibility of Hazardous Reactions: Hazardous polymerisation will not occur.

Chemical Stability: Stable at ambient temperature and under normal conditions of use.

Conditions to Avoid: Humidity.

Incompatible Materials: Strong oxidizing agents, acids and alkalies.

Hazardous Decomposition Products:

Harmful organic fumes and toxic oxide fumes may be formed at elevated temperatures.

11 . TOXICOLOGICAL INFORMATION

Toxicity:**LD₅₀/LC₅₀ Values Relevant for Classification:****7440-22-4 Silver**Oral LD₅₀ >2000 mg/kg (rat)**Acute Health Effects**

Inhalation: Inhalation of fumes or dust may cause respiratory irritation.

Skin:

Contact with the molten core solder will cause skin burns. Fumes generated during soldering operations may be irritating to the skin.

(Contd. on page 4)



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(Contd. of page 3)

Eye:

Contact with the wire form of this product can be physically damaging to the eye. Contact with the molten core solder will cause burn to the eyes. Fumes generated during soldering operations or dust may cause moderate irritation, tearing, and reddening.

Ingestion: Harmful if swallowed.

Skin Corrosion / Irritation: Based on classification principles, the classification criteria are not met.

Serious Eye Damage / Irritation: Based on classification principles, the classification criteria are not met.

Respiratory or Skin Sensitisation: No sensitising effects known.

Germ Cell Mutagenicity: Based on classification principles, the classification criteria are not met.

Carcinogenicity: This product does NOT contain any IARC listed chemicals.

Reproductive Toxicity: Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Single Exposure:

Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Based on classification principles, the classification criteria are not met.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.

Chronic Health Effects:

Prolonged or repeated exposure to tin fumes can result in benign pneumoconiosis, which causes inflammation of the lungs, but there is no distinct fibrosis or evidence of disability.

Argyria, a blue-gray discoloration of the skin, mucous membranes, and eyes may result from inhalation of silver. This discoloration may become permanent.

Existing Conditions Aggravated by Exposure: No information available

Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 . ECOLOGICAL INFORMATION

Ecotoxicity: No information available

Aquatic toxicity: No information available

Persistence and Degradability: No information available

Bioaccumulative Potential: No information available

Mobility in Soil: No information available

13 . DISPOSAL CONSIDERATIONS

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.

Special Precautions for Landfill or Incineration:

Please consult your state Land Waste Management Authority for more information.

14 . TRANSPORT INFORMATION

UN Number Not regulated

ADG, IMDG, IATA Void

Proper Shipping Name Not regulated

(Contd. on page 5)



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(Contd. of page 4)

ADG, IMDG, IATA Void
Dangerous Goods Class Not regulated
ADG Class: Void
Packing Group: Not regulated
ADG, IMDG, IATA Void
Marine pollutant: No

15 . REGULATORY INFORMATION

Australian Inventory of Chemical Substances:

7440-31-5	tin
7440-50-8	Copper
7440-22-4	Silver

16 . OTHER INFORMATION

Creation Date: 22.05.2014**Prepared by:** MSDS.COM.AU Pty Ltdwww.msds.com.au

Abbreviations and acronyms:

ADG: Australian Dangerous Goods
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized 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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
IARC: International Agency for Research on Cancer
STEL: Short Term Exposure Limit
TWA: Time Weighted Average
NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Disclaimer

This MSDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - December 2011"

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