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# MATERIAL SAFETY DATA SHEET

### Section 1: IDENTIFICATION OF THE MATERIAL

Product name: Tin/Lead Solders – Medium Grade Part number: P611001, P611002, P611003, P611004, P611005, P611007, P611009 Other names: N/A Recommended use: Soldering - General

#### Section 2: HAZARD IDENTIFICATION

Hazard Classification according to criteria of Worksafe Australia.

<u>Risk Phrase(s)</u>	R20/21 R22 R33 R61 R62	Harmful by inhalation and contact with skin. Harmful if swallowed. Danger of cumulative effects. May cause harm to the unborn child. Possible risk of impaired fertility.
<u>Safety Phrase(s)</u>	S13 S20/21 S45 S53	Keep away from food, drink and animal feeding stuffs. When using, do not eat, drink or smoke. In case of accident or you feel unwell seek medical advice immediately. Avoid exposure- obtain special instructions before use.

#### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Entity

Tin Lead Antimony Proportion 30 - 60% 40 - 70% 0 - 3% CAS Number 7440-31-5

7439-92-1 7440-36-0

#### Section 4: FIRST AID MEASURES



Description of necessary measures according to route of exposure.

Ingestion:	Give plenty of water to drink; seek medical advice if a large object has been swallowed.	
Eye:	Irrigate the affected eye(s) with water and seek medical advice to remove the foreign body if necessary.	
Skin:	If molten material comes in contact with the skin and adheres: - cool quickly with running water – do not attempt to remove. For metal dust contamination, wash the affected area with soap and water.	
Inhalation:	If fume or dust is inhaled, remove victim to fresh air taking care not to become a casualty. Lay patient down and keep warm and rested. Seek medical attention.	
Medical Attention and Special Treatment:	Treat symptomatically.	
Additional information		
Aggravated Medical Conditions Caused by Exposure:	Test for lead in blood if patient has had long term exposure, particularly to dust or fume. Blood lead levels exceeding 100 ug/100ml indicate lead poisoning. Exposure of high levels of airborne or ingested lead may produce symptoms of anaemia, insomnia, weakness, constipation, nausea and abdominal pain. Women of child bearing age should avoid exposure to lead due to post natal effects. Over exposure to Tin and Antimony not expected.	

## Section 5: FIRE FIGHTING MEASURES

Extinguishing Media:	Dry Chemical Powder or Carbon Dioxide.
Hazardous Combustion Products:	Non Flammable.
Special Protective Equipment:	Fire fighters should wear self contained breathing apparatus and protective clothing if exposed to products of decomposition.
Additional information	Avoid contact with strong acids. Incompatibility: Avoid oxidising materials, acids and peroxides. Above 500°C lead fumes may be generated.
HAZCHEM CODE:	None Allocated

# Section 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedures:	Refer to protection measures listed in 7/8.	
Methods and Materials for Containment and Clean Up Procedures		
Small Spills / Leaks:	In molten state allow to solidify and cool. Break up and recycle as scrap.	

Large Spills / Leaks:	In molten state allow to solidify and cool. Break up and recycle as scrap. Seek advice of supplier. If necessary dam the spill area to prevent entry of molten metal to drains. Scrap solder by-products can be recycled by returning to supplier.
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## Section 7: HANDLING AND STORAGE

Precautions for Safe Handling:	Good occupational practice should be followed when lifting or carrying lead. Always wear protective clothing and equipment when molten metal is present.

Conditions for Safe Storage: Material stable. Storage and transport should not present a problem.

### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards - as regula	ated by: Worksafe Austr	alia	
Chemical Name	ES – TWA	ES - STEL	ES – Peak
Tin (Dust & Fume) Lead Antimony	2 mg/m <sup>3</sup> 0.15 mg/m <sup>3</sup> 0.5 mg/m <sup>3</sup>		
Biological Limit Values	No data available.		
Engineering Controls:		traction should be provided to ensure operator comfort.	
Personal Protective Equipment (PPE)			
Eye / Face Protection:	Safety Glasses or full fa	ace mask.	
Skin Protection:		boots and protective clothing h hands before eating, drink	
Respiratory Protection:	An approved dust/fume be exceeded.	respirator should be worn w	vhen TWA values may

## Section 9: PHYSICAL AND CHECMICAL PROPERTIES

Silver/Grey Solid
Silver/Grey
Nil
N/A
N/A
N/A
Composition of solders is variable, therefore none given.
Insoluble
Composition of solders is variable, therefore none given.
N/A
N/A



For Flammable Limits (as a percentage volume	in air)
Lower Explosion Limit :	N/A
Upper Explosion Limit :	N/A
Ignition Temperature:	N/A
Specific Heat Value :	N/A
Particle Size:	N/A
Volatile Organic Compounds (VOC) Content	N/A
Evaporation Rate :	N/A
Viscosity :	N/A
Percent Volatile :	N/A
Octanol/Water partition coefficient :	N/A
Saturated Vapour Concentration :	N/A
Additional Characteristics	N/A
Flame Propagation/Burning Rate of Solid Materials :	N/A
	N/A
Properties of material that may initiate or contribute to fire intensity :	IN/A
Potential for Dust Explosion :	Nil
Reactions that Release Flammable Gases :	Nil
Fast or Intensely Burning Characteristics :	N/A
Non-Flammables that could contribute unusual	19/6
hazards to a fire :	None
Release of invisible flammable vapour and	Nil
gases :	
Decomposition Temperature :	N/A
Additional Information	
Molecular Weight :	N/A
Solubility :	Insoluble

# Section 10: STABILITY AND REACTIVITY

Chemical Stability:	Stable under the handling and storage conditions listed in section 7.
Conditions to Avoid:	Avoid contact with strong acids.
Incompatible Materials:	Avoid oxidising materials, acids and peroxides.
Hazardous Decomposition Products:	None
Hazardous Reactions:	None

# Section 11: TOXICOLOGICAL INFORMATION

Toxicity Data:	No data available.
Ingestion:	Extremely Unlikely unless in the form of dust or fume. Lead is absorbed in small amounts from the gastrointestinal tract, which may enter through the swallowing of inhaled particles.
Eye:	Dust or metal particles may cause soreness or scratches of the eye.
Skin:	Hot metal burns.
Inhaled:	Unlikely due to physical form.



## Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Persistence / Degradability: Mobility: Environmental Fate: Bioaccumulative Potential : The product has no effect on the environment unless in finely divided form. No data available. No data available. No data available. No data available.

### Section 13: DISPOSAL CONSIDERATION

Disposal Methods:

Scrap should be recycled by returning to supplier. Do not dispose to landfill. Do not discharge into drains or water courses. Dispose of in accordance with all local, state and federal regulations at an approved waste disposal facility.

Special Precautions for Landfill or Incineration:

Not Applicable

The Disposal Considerations mentioned above applies to the material / product described in this MSDS as manufactured. Further processing, use, or contamination of the product may make the information inappropriate, inaccurate or incomplete.

## Section 14: TRANSPORT INFORMATION

UN Number: UN Shipping Name: Dangerous Goods Class: Packing Group: Special Precautions / Requirement: HAZCHEM Code:

N/A None Allocated N/A None Allocated

None Allocated

Additional Information – Material for Export:

N/A

### Section 15: REGULATORY INFORMATION

Poison Schedule Number: EPG: AICS Name: NZ Toxic Substance: None Allocated None Allocated N/A N/A

#### Section 16: OTHER INFORMATION

# Date of Preparation/last Revision of the MSDS : 6<sup>th</sup> November 2015

New Zealand Emergency Telephone: 111 New Zealand National Poisons Centre Telephone: 0800 POISON (0800 764 766)



The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and to develop work practice procedures for a safe work environment.

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