



Consolidated Alloys

A Division of C.A. Group Australasia Pty. Ltd.
ABN 83 005 084 097 ACN 005 084 097

Head Office : 32 Industrial Avenue Thomastown, Victoria 3074
AUSTRALIA
Mail : PO Box 199, Reservoir, Victoria 3073
AUSTRALIA
Telephone : (03) 9359 5811
Facsimile : (03) 9359 4076
E-mail : info@cagroup.com.au

Reference No. : M101
Product Name : Tin

MATERIAL SAFETY DATA SHEET

Section 1 : IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **TIN**
Other Names: **Stannum**
Recommended Use: Various

Supplier's / Manufacturer's

Name: Consolidated Alloys
Address: 32 Industrial Avenue, Thomastown, Victoria 3074, AUSTRALIA
Telephone No.: (03) 9359 5811
Emergency No.: (03) 9359 5811 – Business Hours
0439 062 480 – After Hours (24Hrs)

Poisons Information Centre
Victoria
Telephone No.: 131126

Section 2 : HAZARD IDENTIFICATION

Hazard Classification according to criteria of Worksafe Australia.

Risk Phrase(s) R20/22 Harmful by inhalation and if swallowed.

Safety Phrase(s) S36/37 Wear suitable protective clothing and gloves.



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Section 3 : COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Entity	Proportion	CAS Number
Tin	100%	7440-31-5

Section 4 : FIRST AID MEASURES

Description of necessary measures according to route of exposure.

Ingestion: If ingestion is substantial or irritation persists, seek immediate medical advice.

Eye: Flush eyes with running water for 15 minutes to remove dust. If irritation persists, seek medical attention.

Skin: Remove contaminated clothing and wash affected area with soap and water.

Inhalation: For dust and fumes: Remove from exposure to fresh air.

Medical Attention and Special Treatment: Treat symptomatically.

Additional information

Aggravated Medical Conditions Caused by Exposure: Not expected to cause chronic health effects.



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Section 5 : FIRE FIGHTING MEASURES

Extinguishing Media: Dry Chemical Powder or Carbon Dioxide. Do not use water on fire where molten metal is present.

Hazards from Combustion Products: Non combustible.

Special Protective Equipment: Fire fighters should wear self contained breathing apparatus if risk of exposure to products of decomposition.

Additional information Avoid contact with strong acids, alkalies and oxidants.

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 freeze. Break up and recycle as scrap.

Large Spills / Leaks: Molten solder will solidify upon cooling and can be scraped up and recycle as scrap. Use caution to avoid breathing fumes if a gas torch is used to cut up large pieces. Seek advice of supplier. Do not allow entry into drains or water courses. If the product contaminates the water table, rivers or drains alert the authority in accordance with the regulatory procedures.

For Personal Protective Equipment (PPE) - refer to Section 8 of this MSDS (if required)



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Section 7 : HANDLING AND STORAGE

Precautions for Safe Handling: Ensure good ventilation/exhaustion in the workplace.

Conditions for Safe Storage: Store in a dry location away from incompatible materials.

Section 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards – as regulated by: Worksafe Australia

Chemical Name	ES – TWA	ES - STEL	ES – Peak
Tin (Dust and Fume)	2.0 mg/m ³		

Biological Limit Values: No data available.

Engineering Controls: Avoid generation of dust.

Personal Protective Equipment (PPE)

Eye / Face Protection: Safety Glasses/goggles or full face mask.

Skin Protection: Gloves and protective clothing should be worn.

Respiratory Protection: An approved dust/fume respirator should be worn when ventilation is not sufficient.



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Section 9 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Shiny, solid metal
Colour:	Silver/Yellow
Odour:	Nil
Vapour Pressure:	N/A
Vapour Density:	N/A
Boiling Point:	N/A
Melting Point:	232oC
Solubility in Water:	Insoluble
Specific Gravity:	7.3
Flash Point:	N/A
pH:	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
Properties of material that may initiate or contribute to fire intensity :	N/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 hazards to a fire :	None
Release of invisible flammable vapour and gases :	Nil
Decomposition Temperature :	N/A

Additional Information

Molecular Weight :	118.69 g/mole
Solubility :	Insoluble



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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, alkalis and oxidants.
Incompatible Materials:	Tin is incompatible with chlorine, turpentine, acids and alkalis.
Hazardous Decomposition Products:	None
Hazardous Reactions:	None

Section 11 : TOXICOLOGICAL INFORMATION

Toxicity Data:	No data available.
Ingestion:	Unlikely. Tin has relatively low oral toxicity.
Eye:	Dust or fumes can cause eye irritation.
Skin:	Avoid contact with skin. Hot or molten metal causes burns.
Inhaled:	Dust or fume may cause irritation of mucus membranes and may result in benign pneumoconiosis (stannosis).

Section 12 : ECOLOGICAL INFORMATION

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



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Section 13 : DISPOSAL CONSIDERATIONS

Disposal Methods: Scrap should be recycled and returned to supplier. Do not dispose to landfill.

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: None Allocated
UN Shipping Name: None Allocated
Dangerous Goods Class: N/A
Packing Group: N/A
Special Precautions / Requirement: N/A
HAZCHEM Code: None Allocated

Additional Information –
Material for Export: N/A

Section 15 : REGULATORY INFORMATION

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



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Section 16 : OTHER INFORMATION

Last Revision: 03/03/2008

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----- End of MSDS -----