



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. : C312
Product Name : Tin Oxide

MATERIAL SAFETY DATA SHEET

Section 1 : IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **TIN OXIDE**
Other Names: **Stannic Oxide, Tin Dioxide.**
Recommended Use: Used to glaze and colour ceramics and glass including polishing glass and metal.

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 only
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) R36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrase(s)
S7/9 Keep container tightly closed and in a well ventilated place.
S25 Avoid contact with the eyes.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.



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Section 3 : COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Entity	Proportion	CAS Number
Stannic Oxide	100%	18282-10-5

Section 4 : FIRST AID MEASURES

Description of necessary measures according to route of exposure.

Ingestion:	If swallowed, wash out mouth with water provided the person is conscious. Consult a doctor.
Eye:	If in eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers and seek medical assistance.
Skin:	Not skin irritant if contact occurs, however wash skin with soap and water.
Inhalation:	If inhaled, remove to fresh air. Seek medical assistance if the effects persist.
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: Water spray, Foam, Carbon Dioxide, Dry Chemical Powder or BCF.

Hazardous Combustion Products: Non Flammable.

Special Protective Equipment: Fire fighters should wear self contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Additional information

HAZCHEM CODE: None

Section 6 : ACCIDENTAL RELEASE MEASURES

Emergency Procedures: Personnel involved in the clean up should wear full protective clothing.

Methods and Materials for Containment and Clean Up Procedures

Small Spills / Leaks: Sweep up, place in a bag for disposal.

Large Spills / Leaks: Shovel and sweep up and seal in labelled drums for disposal at your local waste management facility. Also, vacuum cleaner or wet sweeping can be used. Avoid raising dust. Wash spill site after material pickup is complete.

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: Use good occupational work practice. Avoid causing dust. Use local exhaust ventilation or personal respiratory equipment. When handling, DO NOT eat, drink or smoke.

Conditions for Safe Storage: Material stable. Keep container tightly closed.

Section 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards – *as regulated by:* Worksafe Australia

Chemical Name	ES – TWA	ES - STEL
Tin Oxide (As Tin)	2 mg/m ³ (as Sn) Over 8 Hrs weighted av.	4 mg/m ³ (as Sn) Short term exposure

Biological Limit Values: No data available.

Engineering Controls: Ensure good ventilation to maintain exposure levels below TWA. Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment (PPE)

Eye / Face Protection: Wear chemical goggles.

Skin Protection: Wear PVC or Rubber gloves.

Respiratory Protection: Wear a dust mask.



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Section 9 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Powder
Colour:	White
Odour:	None
Vapour Pressure:	N/A
Vapour Density:	N/A
Boiling Point:	Sublimates between 1800°C and 1900°C
Melting Point:	Approx. 1630°C
Solubility in Water:	Insoluble, pH of slurry neutral.
Specific Gravity:	Approx. 6.95
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 :	N/A
Reactions that Release Flammable Gases :	N/A
Fast or Intensely Burning Characteristics :	N/A
Non-Flammables that could contribute unusual hazards to a fire :	N/A
Release of invisible flammable vapour and gases :	Nil
Decomposition Temperature :	N/A

Additional Information

Molecular Weight :	150.69
Solubility :	Insoluble in water.



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Section 10 : STABILITY AND REACTIVITY

Chemical Stability:	Product is stable under normal conditions of use and storage.
Conditions to Avoid:	None known.
Incompatible Materials:	Incompatible with strong acids and strong oxidising agents.
Hazardous Decomposition Products:	Nature of decomposition products not known.
Hazardous Reactions:	None

Section 11 : TOXICOLOGICAL INFORMATION

Toxicity Data:	LD ₅₀ greater than 2.0g/kg bodyweight.
Ingestion:	Non toxic.
Eye:	The material may be an irritant to the eyes.
Skin:	No irritating effect.
Inhalation:	Material may be irritating to the mucous membranes and upper respiratory tract. Chronic exposure to tin oxide dust may cause Stannosis (pneumoconiosis).

Section 12 : ECOLOGICAL INFORMATION

Ecotoxicity:	No data available.
Persistence / Degradability:	No data available.
Mobility:	No data available.
Environmental Fate:	Insoluble in water, stable and inert under normal environmental conditions.
Bioaccumulative Potential :	No data available.



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Section 13 : DISPOSAL CONSIDERATIONS

Disposal Methods: Contact a licensed professional waste disposal service to dispose of this material.

Special Precautions for Landfill or Incineration: Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all Local, State and Federal environmental regulations.

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: N/A
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 : N/A
AICS Name : N/A
NZ Toxic Substance N/A



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Section 16 : OTHER INFORMATION

Last Revision: 21/02/2008

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