



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. : M133
Product Name : Indium

MATERIAL SAFETY DATA SHEET

Section 1 : IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **INDIUM**
Other Names:
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.
R37 Irritating to the respiratory system.

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
Indium	100%	7440-74-6

Section 4 : FIRST AID MEASURES

Description of necessary measures according to route of exposure.

Ingestion: Do NOT induce vomiting. If ingestion is substantial or irritation persists, seek immediate medical advice.

Eye: Hold eyelids apart and flush eyes with plenty of running water for at least 15 minutes. If irritation persists, seek medical attention.

Skin: Remove contaminated clothing and wash affected area with soap and water. If irritation persists seek medical attention.

Inhalation: Remove from exposure to fresh air. If not breathing, give artificial respiration or oxygen by trained personnel. Seek immediate medical attention.

Medical Attention and Special Treatment: Treat specific symptoms related to exposure.

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: Flammable

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 and oxidising agents.

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: Use appropriate tools to put the spilled solid in a convenient waste disposal container.

Large Spills / Leaks: Stop leak if without risk. Do not touch spilled material. Shovel material into labelled waste disposal containers and return to supplier. Use water spray curtain to divert vapour drift. Prevent entry into drains or water courses. Eliminate all ignition sources. 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: Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not breathe dust.

Conditions for Safe Storage: Store product in a cool, dry and well ventilated location. Keep container tightly closed and 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
Indium	0.1 mg/m ³		

Biological Limit Values No data available.

Engineering Controls: If user operations generate dust or fume, use local ventilation to keep exposure to airborne contaminants below the exposure limit.

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:	Solid metal
Colour:	Silvery white
Odour:	Nil
Vapour Pressure:	N/A
Vapour Density:	N/A
Boiling Point :	2000oC
Melting Point:	156.7oC
Solubility in Water:	Insoluble
Specific Gravity:	Approx. 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 Gasses :	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 gasses :	Nil
Decomposition Temperature :	N/A

Additional Information

Molecular Weight :	114.82 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:	Keep away from heat.
Incompatible Materials:	Avoid contact with acids and oxidising agents.
Hazardous Decomposition Products:	None
Hazardous Reactions:	None

Section 11 : TOXICOLOGICAL INFORMATION

Toxicity Data:	No Data Available
Ingestion:	No toxic effect known.
Eye:	Contact with dust or fume may cause irritation.
Skin:	May cause irritation to the skin. Can cause burns if handling hot or molten metal.
Inhaled:	Inhalation of fume or dust may cause irritation to the respiratory system.

Section 12 : ECOLOGICAL INFORMATION

Ecotoxicity:	No Data Available
Persistence / Degradability:	Hazardous short term degradation products are not likely. However, long term degradation products may arise.
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: 3089
UN Shipping Name: METAL POWDER, FLAMMABLE, N.O.S.
Dangerous Goods Class: 4.1
Packing Group: 3
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: 30/05/2008

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