



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. : M102
Product Name : Lead

MATERIAL SAFETY DATA SHEET

Section 1 : IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **LEAD**
Other Names: Pig, Block, Ingot, Metal, Bullion.
Recommended Use: Flashing, Weights, Alloys, Anodes

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)

R20/21	Harmful by inhalation and contact with skin.
R22	Harmful if swallowed.
R33	Danger of cumulative effects.

Safety Phrase(s)

S13	Keep away from food, drink and animal feeding stuffs.
S20/21	When using, do not eat, drink or smoke.



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Section 3 : COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Entity	Proportion	CAS Number
METAL:		
Lead – 99.97%	>99.97%	7439-92-1
Lead – 99.99%	>99.99%	7439-92-1
Lead – Cu 01, Cu 06	>99.9%	7439-92-1

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 cold 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. Exposure to 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. Kidney damage occurs on long term exposure through inhalation or ingestion of the dust or fume.
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Section 5 : FIRE FIGHTING MEASURES

Extinguishing Media: Dry Chemical Powder or Carbon Dioxide.

Hazards from Combustion Products: Metal: 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. Resistant to hydrofluoric acid.
Incompatibility: Avoid oxidising materials, acids and peroxides. Above 500oC 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 spill to solidify and cool. Take care not to introduce water to molten metal because of explosion risks. If necessary dam the spill area to prevent entry of molten metal to drains. Scrap lead-products can be recycled by returning to supplier.

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: Good occupational practice should be followed when lifting or carrying lead.

Conditions for Safe Storage: Material stable. Store away from oxidising agents and acids. Keep away from food and drink.

Section 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards – as regulated by: Worksafe Australia

Chemical Name	ES – TWA	ES - STEL	ES – Peak
METAL: Lead (Dust and Fume)	0.15 mg/m ³		

Biological Limit Values: No data available.

Engineering Controls: Adequate ventilation/extraction should be provided to keep exposure to below TWA values and to ensure operator comfort.

Personal Protective Equipment (PPE)

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

Skin Protection: Leather gloves, safety boots and protective clothing should be worn. Wash contaminated clothing before storing or re-using. Always wash hands before eating, drinking, smoking or using the toilet.

Respiratory Protection: An approved dust/fume respirator should be worn when TWA values may be exceeded.



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Section 9 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Silver/Grey Solid
Colour:	Silver/Grey. Lustrous when cut but tarnishes when exposed to air.
Odour:	Nil
Vapour Pressure:	1 mm Hg @ 973oC
Vapour Density:	N/A
Boiling Point / Range:	N/A
Melting Point:	327oC
Solubility in Water:	Insoluble
Specific Gravity:	11.34 @ 20oC
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 :	207.19 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 oxidising agents and strong acids.
Incompatible Materials:	Incompatible with oxidisers. Reacts with hot concentrated nitric acid, sulphuric acid, hydrochloric acid and peroxides.
Hazardous Decomposition Products:	Will produce toxic fumes (oxides of lead) at high temperatures.
Hazardous Reactions:	None

Section 11 : TOXICOLOGICAL INFORMATION

Toxicity Data:	Oral LDLO Pigeon : 160 mg/kg
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:	Unlikely route of entry. Lead dust or Lead particles may cause inflammation, soreness or scratches of the eye.
Skin:	May result in skin irritation.
Inhaled:	Unlikely due to physical form, however dust or fumes are readily absorbed from the respiratory tract and may result in symptoms of poisoning.

Section 12 : ECOLOGICAL INFORMATION

Ecotoxicity:	The product has no effect on the environment unless in finely divided form.
Persistence / Degradability:	No Data Available
Mobility:	No Data Available
Environmental Fate:	It is relatively mobile in the aquatic environment and can be concentrated by aquatic organisms.
Bioaccumulative Potential :	No Data Available

Additional Information



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Section 13 : DISPOSAL CONSIDERATIONS

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: None Allocated
UN Shipping Name: N/A
Dangerous Goods Class: None Allocated
Packing Group: None Allocated
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

Additional Information :



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Section 16 : OTHER INFORMATION

Last Revision: 18/12/2007

Additional Information

THIS MATERIAL SAFETY DATA SHEET IS OFFERED SOLELY FOR YOUR INFORMATION, CONSIDERATION AND INVESTIGATION. CONSOLIDATED ALLOYS PROVIDES NO WARRANTIES, EITHER EXPRESSED OR IMPLIED AND ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE DATA CONTAINED HEREIN. MATERIAL USE IS BEYOND THE CONTROL OF SUPPLIER.

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