



Reference No. : F214  
Product Name : Sal Ammoniac Blocks

## MATERIAL SAFETY DATA SHEET

### Section 1 : IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **SAL AMMONIAC BLOCKS**  
Other Names: **Ammonium Chloride**  
Recommended Use: Flux material in soldering.

#### 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 Phrases(s)  
R22 Harmful if swallowed.  
R36 Irritating to eyes.

Safety Phrase(s)  
S2 Keep out of the reach of children.  
S22 Do not breathe dust.



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### Section 3 : COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Entity	Proportion	CAS Number
Ammonium Chloride	100%	12125-02-9

### Section 4 : FIRST AID MEASURES

Description of necessary measures according to route of exposure

Ingestion:	DO NOT induce vomiting. If poisoning occurs, contact a doctor or Poisons Information Centre. If conscious, give water to rinse out mouth and drink. Provide liquid slowly but as much as casualty will drink.
Eye:	If contact with eyes occurs, hold eyes open, flood with water for at least 15 minutes and see a doctor without delay.
Skin:	Immediately wash away with plenty of soap and water. Remove ALL contaminated clothing. If irritation occurs seek medical advice.
Inhalation:	Remove source of contamination or move victim to fresh air. Keep warm and rested. If breathing is shallow or has stopped, ensure clear airway and apply resuscitation. Seek medical advice immediately.
Medical Attention and Special Treatment:	Treat symptomatically.

#### Additional information

Aggravated Medical Conditions Caused by Exposure:	No chronic effects have been reported in humans from normal industrial use. Ammonium chloride has not been listed by the International Agency for Research on Cancer as either human or animal carcinogens.
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### Section 5 : FIRE FIGHTING MEASURES

- Extinguishing Media: Water spray or fog, Foam, Dry Chemical Powder, Carbon Dioxide.
- Hazards from Combustion Products: Non-combustible solid. Incompatible with oxidising agents, acids, alkali and sources of ignition. Exposure to heat may cause product to decompose generating hazardous gases including ammonia and hydrochloric fumes.
- Special Protective Equipment: Fire fighters should wear self contained breathing apparatus if risk of exposure to products of decomposition.
- Additional information Fire fighting procedure- Alert Fire Brigade tell them location and nature of hazard. Do not approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire.
- HAZCHEM CODE: None Allocated

### 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: Wash with plenty of water or alternatively vacuuming recommended.
- Large Spills / Leaks: Environment Hazard: contain spillage. Clean-up personnel should wear full protective clothing. Eliminate all sources of ignition. Increase ventilation. Avoid generating dust. Do not allow product to reach drains, sewers or waterways. If the product does enter a waterway, advise the EPA or your local waste management authority. Contain and shovel material into a labelled drum sealed for disposal. Wash spill site with plenty of water to eliminate any residues.

*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 an eye bath and safety shower are available and ready for use. Observe good personnel hygiene practices and recommended procedures. Wash thoroughly after handling.

Conditions for Safe Storage: Store in a cool, dry, well ventilated area. Keep containers tightly closed when not in use. Store away from incompatible materials. Protect from direct sunlight, moisture and electrostatic discharges.

### Section 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards – as regulated by: Worksafe Australia

Chemical Name	ES – TWA	ES - STEL	ES – Peak
Ammonium Chloride (Fume)	10 mg/m <sup>3</sup>	20mg/m <sup>3</sup>	

Biological Limit Values: No data available.

Engineering Controls: If irritating fumes are emitted, prevent dispersion into the work area by using local and/or general exhaust.

#### Personal Protective Equipment (PPE)

Eye / Face Protection: Safety glasses or wear chemical goggles.

Skin Protection: Wear safety footwear, overalls and PVC gloves and apron.

Respiratory Protection: Wear an approved particulate/gas respirator complying with AS 1716. Use in accordance with AS 1715.



## Consolidated Alloys

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

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Mail : PO Box 199, Reservoir, Victoria 3073  
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Telephone : (03) 9359 5811  
Facsimile : (03) 9359 4076  
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## Section 9 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Granular Solid
Colour:	White
Odour:	Saline Taste
Vapour Pressure:	1.0
Vapour Density:	1.9
Boiling Point:	520oC
Melting Point:	340oC
Solubility in Water:	Soluble
Specific Gravity:	1.5
Flash Point:	N/A
pH:	5.5 (1% solution)

### *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 Gasses :	Reacts with potassium chlorate causing explosion.
Fast or Intensely Burning Characteristics :	N/A
Non-Flammables that could contribute unusual hazards to a fire :	Interhalogens and potassium chlorate.
Release of invisible flammable vapour and gasses :	Nil
Decomposition Temperature :	N/A

### Additional Information

Molecular Weight :	53.49 g/mole
Solubility :	Soluble in liquid ammonia, methanol and ethanol.



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## Section 10 : STABILITY AND REACTIVITY

Chemical Stability: Product is stable under normal conditions of use and storage.  
Conditions to Avoid: Avoid excessive heat, direct sunlight generating dust and moisture.  
Incompatible Materials: Incompatible with oxidising agents, acids, alkali, interhalogens, bromine fluoride, ammonium nitrate, potassium chlorate and sources of ignition.  
Hazardous Decomposition Products: Exposure to heat may cause product to decompose generating hazardous gases of ammonia and hydrochloric fumes.  
Hazardous Reactions: Strong acids may produce hydrogen chloride gas. Strong bases may produce ammonia gas. Interhalogens and potassium chlorate may cause explosion.

## Section 11 : TOXICOLOGICAL INFORMATION

Toxicity Data: Oral LD50 Rat: 1650 mg/kg.  
Ingestion: Harmful if swallowed. Will irritate the gastric tract causing nausea and vomiting.  
Eye: Irritating to eyes. On eye contact this product will cause tearing, stinging, blurred vision and redness.  
Skin: May cause irritation resulting in redness and itching.  
Inhaled: Airborne dust may cause irritation to the mucous membrane and upper airways. Symptoms of exposure include coughing, sneezing and breathing difficulties.

## Section 12 : ECOLOGICAL INFORMATION

Ecotoxicity: No data available.  
Persistence / Degradability: No data available.  
Mobility: No data available.  
Environmental Fate: Avoid contaminating drains, sewers or waterways.  
Bioaccumulative Potential : No data available.



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## Section 13 : DISPOSAL CONSIDERATIONS

Disposal Methods: Dispose of in accordance with all local, state and federal regulations at an approved waste disposal facility.

Special Precautions for Landfill or Incineration: No data available.

*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: 02/06/2008

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