



Infosafe No™	1CH0W	Issue Date : February 2014	RE-ISSUED by CHEMSUPP
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Product Name : **AMMONIUM CARBONATE**

Classified as hazardous

1. Identification

GHS Product Identifier AMMONIUM CARBONATE

Company Name CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)

Address 38 - 50 Bedford Street GILLMAN
SA 5013 Australia

Telephone/Fax Number Tel: (08) 8440-2000
Fax: (08) 8440-2001

Recommended use of the chemical and restrictions on use Analytical and laboratory reagent, baking powders, carminative, smelling salts, ammonium salts, medicine (expectorant), fire extinguishing compounds, pharmaceuticals, textiles (mordant), fermentation accelerator in wine manufacture, organic chemicals, ceramics and washing wool.

Other Names

Name	Product Code
AMMONIUM CARBONATE LR	AL013
AMMONIUM CARBONATE BP	AP013
AMMONIUM CARBONATE AR	AA013

Ammonium sesquicarbonate, Crystal ammonia, Hartshorn salt

Other Information EMERGENCY CONTACT NUMBER: +61 08 8440 2000
Business hours: 8:30am to 5:00pm, Monday to Friday.

Chem-Supply Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Chem-Supply Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Chem-Supply Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

2. Hazard Identification

GHS classification of the substance/mixture Acute Toxicity - Oral: Category 4

Signal Word (s) WARNING

Hazard Statement (s) H302 Harmful if swallowed.

Pictogram (s) Exclamation mark



Precautionary statement – Prevention P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.

Precautionary statement – Response P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330 Rinse mouth.

3. Composition/information on ingredients

Chemical Characterization Solid

Information on Composition A mixture of ammonium bicarbonate and ammonium carbamate, obtained by subliming a mixture of ammonium sulfate and calcium carbonate. Contains 30-34% ammonia and about 45% carbon dioxide.

Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
	Ammonium carbonate	506-87-6	100 %	Xn	R22



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4. First-aid measures

Inhalation	Remove to fresh air. If breathing has stopped, apply artificial respiration. If symptoms persist, obtain medical attention.
Ingestion	Give water to drink. DO NOT induce vomiting. Seek medical attention.
Skin	Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. Seek medical advice.
Eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek medical advice.
First Aid Facilities	Maintain eyewash fountain and safety shower in work area.
Advice to Doctor	Consult Poisons Information Centre.
Other Information	For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

5. Fire-fighting measures

Suitable extinguishing media	Use fire extinguishing media appropriate for surrounding environment. Use water spray, dry chemical, carbon dioxide, or appropriate foam.
Hazards from Combustion Products	Toxic, poisonous gases of ammonia and carbon dioxide may be emitted in fire.
Specific hazards arising from the chemical	Material does not burn. Fire or heat will produce toxic and irritating fumes. Runoff may pollute waterways.
Decomposition Temp.	58 - 60 °C
Precautions in connection with Fire	Wear SCBA and structural firefighter's uniform.

6. Accidental release measures

Personal Precautions	Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.
Personal Protection	Wear protective clothing specified for normal operations (see Section 8)
Clean-up Methods - Small Spillages	Sweep up (avoid generating dust) and remove to a suitable, clearly labelled container for disposal in accordance with local regulations.

7. Handling and storage

Precautions for Safe Handling	Avoid generation or accumulation of dusts. Do not breathe vapour. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Use in well ventilated areas. Keep container and material away from incompatibles such as metals, copper, acids, and other alloys. May corrode metallic surfaces. Do not use metallic spatulas or other metal items. Do not empty into drains, dispose material and container in a safe manner.
Conditions for safe storage, including any incompatibilities	Store in a cool place. Keep containers securely sealed and protected against physical damage. Store away from incompatibles such as acids and acid salts, alkali hydroxides, nitrates, nitrites, salts of iron and zinc, copper, nickel and other alloys, alkalioids, alum, calomel and tartar emetic. Air sensitive.

8. Exposure controls/personal protection

Other Exposure Information	A time weighted average (TWA) concentration for an 8 hour day, and 5 day week has not been established by Safe Work Australia for this product. There is a blanket limit of 10 mg/m ³ for dusts or mists when limits have not otherwise been established.
Appropriate engineering controls	In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.
Respiratory Protection	Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.



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Eye Protection	The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.
Hand Protection	Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.
Body Protection	Wear suitable protective clothing and gloves to prevent skin contact. Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.
Hygiene Measures	Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

9. Physical and chemical properties

Form	Solid
Appearance	White translucent lumps or powder.
Odour	Strong odour of ammonia.
Decomposition Temperature	58 - 60 °C
Melting Point	Volatilises at 58 - 60 °C.
Solubility in Water	Very soluble in water (320 g/l at 20 °C).
Solubility in Organic Solvents	The carbamate portion dissolves in alcohol.
Specific Gravity	1.5 (Water = 1)
pH	9 - 10 (100 g/l, H ₂ O, 20 °C)
Vapour Pressure	188 hPa (20 °C)
Flammability	Non combustible material.
Molecular Weight	157.13

10. Stability and reactivity

Chemical Stability	Decomposes on exposure to air with loss of NH ₃ and CO ₂ , becoming white and powdery and converting into ammonium bicarbonate.
Conditions to Avoid	Exposure to air. High temperatures. Light. Incompatibles.
Incompatible Materials	Acids and acid salts, alkali hydroxides, nitrates, nitrites, salts of iron and zinc, alkaloids, aluminium.
Hazardous Decomposition Products	Corrosive to copper, nickel and other alloys.
Hazardous Polymerization	Ammonia, oxide of carbon.
	Will not occur.

11. Toxicological Information

Acute Toxicity - Oral	LD50(rat): 1975 mg/kg
Ingestion	Harmful if swallowed. May causes gastrointestinal tract irritation. Symptoms are diuretic effects, nausea, vomiting, thirst, headache and possible mental confusion. It is very unlikely that accidental ingestion will have more than a diuretic effect.
Inhalation	Dust accumulation and ammonia vapours may cause irritation to the mucous membranes of the respiratory tract. Symptoms include of coughing, wheezing, vomiting and redness to the mucous membranes. Concentrations (> 1000 ppm) may cause restlessness, chest pains, pulmonary edema, weak pulse and cyanosis.
Skin	Contact with skin will result in moderate irritation. Symptoms include of itching, redness and pain resulting in skin burns if not treated.
Eye	A severe eye irritant. Causes eye irritation, redness and pain resulting in eye burns if not treated.
Carcinogenicity	No evidence of carcinogenic properties.
Chronic Effects	There are no known adverse effects following chronic exposure to the material.
Mutagenicity	No evidence of mutagenic properties.

12. Ecological information



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Environmental Protection Highly toxic to aquatic life.**Acute Toxicity - Fish** LC50 (P.promelas): 37 mg/l /96 h.

The following applies to ammonium ions in general: Fish: Toxic from 0.3 mg/l; nourishment for fish: toxic from 0.3 mg/l .

13. Disposal considerations**Disposal Considerations** Dispose of according to relevant local, state and federal government regulations.**14. Transport information****Transport Information** Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.**15. Regulatory information****Regulatory Information** Listed in the Australian Inventory of Chemical Substances (AICS).**Poisons Schedule** Not Scheduled**16. Other Information**

Literature References

'Standard for the Uniform Scheduling of Medicines and Poisons No. 4', Commonwealth of Australia, June 2013.

Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997.

National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007.

'Labelling of Hazardous Workplace Chemicals, Code of Practice' Safe Work Australia.

Standards Australia 'AS 1940-2004 The Storage and Handling of Flammable and Combustible Liquids. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010.

Worksafe Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(2004)]'.

Worksafe Australia, 'Hazardous Substances Information System, 2005'.

Worksafe Australia, 'National Code of Practice for the Labelling of Workplace Hazardous Substances (2011)'.

Worksafe Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]'.

Contact**Person/Point**Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**

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Empirical Formula & Structural Formula $\text{NH}_4\text{HCO}_3 + \text{NH}_2\text{COONH}_4$ **Other Information**

Previously labelled as:
R22 Harmful if swallowed.
...End Of MSDS...

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