



Infosafe No™	1CH0W	Issue Date : November 2018	RE-ISSUED by CHEMSUPP
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Product Name : **AMMONIUM CARBONATE**

Classified as hazardous

**1. Identification**

<b>GHS Product Identifier</b>	AMMONIUM CARBONATE		
<b>Company Name</b>	CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)		
<b>Address</b>	38 - 50 Bedford Street GILLMAN SA 5013 Australia		
<b>Telephone/Fax Number</b>	Tel: (08) 8440-2000 Fax: (08) 8440-2001		
<b>(24 hour a day available)</b>	CHEMCALL: 1800 127 406 (Australia) / +64-4-917-9888 (International)		
<b>Recommended use of the chemical and restrictions on use</b>	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.		
<b>Other Names</b>	<u>Name</u>	<u>Product Code</u>	
	AMMONIUM CARBONATE LR	AL013	
	AMMONIUM CARBONATE AR	AA013	
	Ammonium sesquicarbonate, Crystal ammonia, Hartshorn salt		

**Other Information**

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**

<b>GHS classification of the substance/mixture</b>	Acute Toxicity - Oral: Category 4
<b>Signal Word (s)</b>	WARNING
<b>Hazard Statement (s)</b>	H302 Harmful if swallowed.
<b>Pictogram (s)</b>	Exclamation mark



<b>Precautionary statement – Prevention</b>	P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product.
<b>Precautionary statement – Response</b>	P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P330 Rinse mouth.
<b>Precautionary statement – Disposal</b>	P501 Dispose of contents/container to an approved waste disposal plant.

**3. Composition/information on ingredients**

<b>Chemical Characterization</b>	Solid			
<b>Information on Composition</b>	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.			
<b>Ingredients</b>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Hazard Symbol</u> <u>Risk Phrase</u>



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Ammonium carbonate	506-87-6	100 %
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**4. First-aid measures**

<b>Inhalation</b>	Remove to fresh air. If breathing has stopped, apply artificial respiration. If symptoms persist, obtain medical attention.
<b>Ingestion</b>	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.
<b>Skin</b>	Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. If persistent irritation occurs, obtain medical attention.
<b>Eye contact</b>	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. If rapid recovery does not occur, obtain medical attention
<b>First Aid Facilities</b>	Maintain eyewash fountain and safety shower in work area.
<b>Advice to Doctor</b>	Treat symptomatically based on judgement of doctor and individual reactions of the patient.
<b>Other Information</b>	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**

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

**6. Accidental release measures**

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

**7. Handling and storage**

<b>Precautions for Safe Handling</b>	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.
<b>Conditions for safe storage, including any incompatibilities</b>	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**

<b>Other Exposure Information</b>	No exposure standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts/mists not otherwise specified is 10 mg/m3. All atmospheric contamination should be kept to as low a level as is workable.
<b>Appropriate engineering controls</b>	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. These methods should be used in preference to personal protective equipment.
<b>Respiratory Protection</b>	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



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<b>Eye Protection</b>	respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.
<b>Hand Protection</b>	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.
<b>Personal Protective Equipment</b>	Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.
<b>Footwear</b>	Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.
<b>Body Protection</b>	Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.
<b>Hygiene Measures</b>	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 hazardous chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.
	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**

<b>Form</b>	Solid
<b>Appearance</b>	White translucent lumps or powder.
<b>Odour</b>	Strong odour of ammonia.
<b>Decomposition Temperature</b>	58 - 60 °C
<b>Melting Point</b>	Volatilises at 58 - 60 °C.
<b>Solubility in Water</b>	Very soluble in water (320 g/l at 20 °C).
<b>Solubility in Organic Solvents</b>	The carbamate portion dissolves in alcohol.
<b>Specific Gravity</b>	1.5 (Water = 1)
<b>pH</b>	9 - 10 (100 g/l, H <sub>2</sub> O, 20 °C)
<b>Vapour Pressure</b>	188 hPa (20 °C)
<b>Coefficient Water/Oil Distr.</b>	log Pow: 0.184
<b>Flammability</b>	Non combustible material.
<b>Molecular Weight</b>	157.13

**10. Stability and reactivity**

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

**11. Toxicological Information**

<b>Acute Toxicity - Oral</b>	LD50(rat): 1800 mg/kg (OECD Test Guideline 401)
<b>Ingestion</b>	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.
<b>Inhalation</b>	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.



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<b>Skin</b>	Contact with skin will result in moderate irritation. Symptoms include of itching, redness and pain resulting in skin burns if not treated.
<b>Eye</b>	A severe eye irritant. Causes eye irritation, redness and pain resulting in eye burns if not treated.
<b>Carcinogenicity</b>	No evidence of carcinogenic properties.
<b>Chronic Effects</b>	There are no known adverse effects following chronic exposure to the material.
<b>Mutagenicity</b>	No evidence of mutagenic properties.

**12. Ecological information**

<b>Ecotoxicity</b>	No ecological data available for this product.
<b>Environmental Protection</b>	Do not allow product to enter drains, waterways or sewers.
<b>Acute Toxicity - Fish</b>	LC50 - 119.46mg/l 96hr

**13. Disposal considerations**

<b>Disposal Considerations</b>	Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and disposed of according to relevant local, state and federal government regulations.
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**14. Transport information**

<b>Transport Information</b>	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
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**15. Regulatory information**

<b>Regulatory Information</b>	Listed in the Australian Inventory of Chemical Substances (AICS). Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
<b>Poisons Schedule</b>	Not Scheduled

**16. Other Information**

<b>Literature References</b>	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia. 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. Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010. Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'. Safe Work Australia, 'Hazardous Substances Information System, 2005'. Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'. Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995) 3rd Edition]'. Paul McCarthy Ph. (08) 8440 2000 <b>DISCLAIMER STATEMENT:</b>
<b>Contact Person/Point</b>	All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. Chem-Supply accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.
<b>Empirical Formula &amp; Structural Formula</b>	NH <sub>4</sub> HCO <sub>3</sub> +NH <sub>2</sub> COONH <sub>4</sub> ...End Of MSDS...

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