

SDS no. FT2DVCC0 • Version 1.0 • Date of issue: 2023-11-10

SECTION 1: Identification

GHS Product identifier

Product name

AMMONIUM CARBONATE

Other means of identification AMMONIUM CARBONATE LR AMMONIUM CARBONATE AR Ammonium sesquicarbonate, Crystal ammonia, Hartshorn salt

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.

Supplier's details

Name Address	ChemSupply Australia Pty Ltd 38-50 Bedford Street 5013 Gillman South Australia Australia
Telephone email	08 8440 2000 www.chemsupply.com.au
Emergency phone number	

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

SECTION 2: Hazard identification

General hazard statement

Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

Classified as Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classification of the substance or mixture

GHS classification in accordance with: UN GHS revision 7

- Acute toxicity, oral, Cat. 4

GHS label elements, including precautionary statements

Pictograms



SECTION 3: Composition/information on ingredients

Mixtures

Molecular weight: 157.13

[00] 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.

Components

Component	CAS no.	Concentration
Ammonium carbonate (EC no.: 233-786-0)	10361-29-2	100 % (weight)
CLASSIFICATIONS: Acute toxicity, oral, Cat. 4. HAZARDS: H302 - Harmful if swallowed.		

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice	First Aid Facilities: Maintain eyewash fountain in work area.
If inhaled	Remove to fresh air. If breathing has stopped, apply artificial respiration. If symptoms persist, obtain medical attention.
In case of skin contact	Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. If persistent irritation occurs, obtain medical attention.
In case of eye contact	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
If swallowed	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.

Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically based on judgement of doctor and individual reactions of the patient.

For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor.

SECTION 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.

Specific hazards arising from the chemical

Hazards from Combustion Products: Toxic, poisonous gases of ammonia and carbon dioxide may be emitted in fire.

Material does not burn. Fire or heat will produce toxic and irritating fumes. Runoff may pollute waterways.

Special protective actions for fire-fighters

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms. Wear protective clothing specified for normal operations (see Section 8)

Methods and materials for containment and cleaning up

Sweep up (avoid generating dust) and remove to a suitable, clearly labelled container for disposal in accordance with local regulations.

SECTION 7: Handling and storage

Precautions for safe handling

Keep container and material away from incompatibles such as metals, copper, acids, and other alloys. May corrode metallic surfaces. Do not use metalic 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 away from incompatibles such as acids and acid salts, alkali hydroxides, nitrates, nitrites, salts of iron and zinc, copper, nickel and other alloys, alkaliods, alum, calomel and tartar emetic. Air sensitive.

SECTION 8: Exposure controls/personal protection

Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face 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.

Skin protection

Clean impervious clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Hand Protection: Ensure hand protection complies 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.

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.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state Appearance Color Odor Odor threshold Melting point/freezing point Boiling point or initial boiling point and boiling range Flammability Lower and upper explosion limit/flammability limit Flash point Explosive properties Auto-ignition temperature Decomposition temperature Oxidizing properties pН Kinematic viscosity Solubility

Partition coefficient n-octanol/water (log value) Vapor pressure Evaporation rate Density and/or relative density Relative vapor density Particle characteristics

Supplemental information regarding physical hazard classes No data available.

Further safety characteristics (supplemental) No data available. Solid White translucent lumps or powder. No data available. Strong odour of ammonia. No data available. Volatilises at 58 - 60 °C. No data available. 58 - 60 °C No data available. 9 - 10 (100 g/l, H20, 20 °C) No data available. Solubility in Water: Very soluble in water (320 g/l at 20 °C). Solubility in Organic Solvents: The carbamate portion dissolves in alcohol. log Pow: 0.184 188 hPa (20 °C) No data available. Specific Gravity: 1.5 (Water = 1) No data available. No data available.

SECTION 10: Stability and reactivity

Reactivity

None under normal use conditions.

Chemical stability

Decomposes on exposure to air with loss of NH3 and CO2, becoming white and powdery and converting into ammonium bicarbonate.

Possibility of hazardous reactions

Hazardous Polymerization: Will not occur.

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, alkaliods, aluminium. Corrosive to copper, nickel and other alloys.

Hazardous decomposition products

Ammonia, oxide of carbon.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Acute Toxicity - Oral: LD50(rat): 1800 mg/kg (OECD Test Guideline 401)

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 ammonina 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 corrosion/irritation

Symptoms include of itching, redness and pain resulting in skin burns if not treated.

Serious eye damage/irritation

Causes eye irrritation, redness and pain resulting in eye burns if not treated.

Respiratory or skin sensitization

No data available.

Germ cell mutagenicity No data available.

Carcinogenicity No data available.

Reproductive toxicity No data available.

Summary of evaluation of the CMR properties

No data available.

Specific target organ toxicity (STOT) - single exposure No data available.

Specific target organ toxicity (STOT) - repeated exposure No data available.

Aspiration hazard No data available.

Additional information No data available.

SECTION 12: Ecological information

Toxicity Acute Toxicity - Fish: LC50 - 119.46mg/l 96hr

Persistence and degradability No data available.

Bioaccumulative potential No data available.

Mobility in soil No data available.

Results of PBT and vPvB assessment No data available.

Endocrine disrupting properties No data available.

Other adverse effects

No data available.

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers.

Other disposal recommendations

Do not discharge this material into waterways, drains and sewers.

SECTION 14: Transport information

ADG (Road and Rail)

Not dangerous goods

IMDG Not dangerous goods

IATA Not dangerous goods

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

Australia SUSMP Poison Schedule: NS

Canadian Domestic Substances List (DSL)

Chemical name: Carbonic acid, ammonium salt CAS: 10361-29-2

Pennsylvania Right To Know Components

Chemical name: Carbonic acid, ammonium salt CAS number: 10361-29-2

SECTION 16: Other information

Further information/disclaimer

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Standard for the Uniform Scheduling of Medicines and Poisons, Commonwealth of Australia National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.' Safe Work Australia, 'National Code of Practice fot the Preparation of Safety Data Sheets for Hazardous Chemicals', July 2020. Safe Work Australia, 'National Guide for Classifying Hazardous Chemicals', July 2020. Safe Work Australia, Workplace Exposure Standards for Airbourne Contaminants, December 2019 Safe Work Australia, Hazardous Chemical Information System (HCIS), hcis.safeworkaustralia.gov.au IATA, Dangerous Goods Regulations (DGR) IMO, International Maritime Dangerous Goods Code (IMDG)