

Safety Data Sheet

Diammonium Citrate (Diammonium Hydrogen Citrate) | Cat. No. ASC-8020 | GHS 7th Edition / WHS Regulations 2023 (Australia)

Section 1 — Identification

Product Name	Diammonium Citrate (Diammonium Hydrogen Citrate)
Catalogue No.	ASC-8020
CAS Number	3012-65-5
Chemical Formula	$C_6H_{14}N_2O_7$
Synonyms	Ammonium citrate dibasic; di-Ammonium hydrogen citrate; Citric acid ammonium salt
Recommended Use	Laboratory reagent for analytical chemistry, agricultural testing, and formulation applications
Restrictions on Use	For laboratory and industrial use — not for unsupervised consumer use
Supplier	AuSaMicS Pty Ltd ABN 56 676 640 467
Address	36/25 Trafalgar Road, Epping, VIC 3076, Australia
Telephone	+61 412 520 598
Email	support@ausamics.com
Emergency Telephone	Poisons Information Centre: 13 11 26 (24 hours, Australia-wide)

Section 2 — Hazard(s) Identification

Classified as a hazardous chemical under the Australian WHS (Hazardous Chemicals) Regulations 2023 and GHS 7th Edition. This substance causes serious eye irritation and may cause respiratory irritation.



GHS Classification	Eye Irritation Category 2; Specific Target Organ Toxicity — Single Exposure (Respiratory Irritation) Category 3
Signal Word	Warning
Hazard Statements	H319 — Causes serious eye irritation. H335 — May cause respiratory irritation.
Precautionary Statements — Prevention	P261 — Avoid breathing dust. P271 — Use only outdoors or in a well-ventilated area. P280 — Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements — Response

P305+P351+P338 — IF IN EYES: rinse cautiously with water for several minutes; remove contact lenses if present and easy to do; continue rinsing. P337+P313 — If eye irritation persists, get medical advice. P304+P340 — IF INHALED: remove to fresh air and keep at rest in a position comfortable for breathing. P312 — Call a POISON CENTER/doctor if you feel unwell.

Other Hazards

None known

Section 3 — Composition / Information on Ingredients

Component	% w/w	CAS No.	Classification
Diammonium hydrogen citrate	≤ 100%	3012-65-5	Eye Irrit. 2, STOT SE 3 (H319, H335)

Section 4 — First-Aid Measures

Eye Contact

Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention if irritation persists.

Skin Contact

Wash with soap and water. Seek medical attention if irritation persists.

Inhalation

May cause respiratory irritation. Remove to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if symptoms persist.

Ingestion

Rinse mouth with water. Consult a physician if a large quantity is swallowed or symptoms occur.

General Advice

Consult a physician if symptoms occur or persist.

Section 5 — Fire-Fighting Measures

Suitable Extinguishing Media

Water spray, carbon dioxide, dry chemical powder, foam

Specific Hazards

No unusual fire or explosion hazards known.

Section 6 — Accidental Release Measures

Personal Precautions

Avoid raising dust. Use PPE as per Section 8. Ensure adequate ventilation.

Environmental Precautions

Prevent entry into drains, watercourses, or soil

Containment & Clean-Up

Sweep or vacuum into a suitable, labelled container for disposal. Avoid dry sweeping that generates dust.

Section 7 — Handling and Storage

Handling Precautions

Avoid contact with eyes. Avoid generating and breathing dust. Handle in a well-ventilated area.

Storage Conditions

Preserve in well-closed containers, in a cool, dry place, protected from moisture

Incompatibilities

None known under normal storage conditions

Section 8 — Exposure Controls / Personal Protection

Engineering Controls

Local exhaust ventilation or fume hood when weighing bulk powder

Eye/Face Protection

Safety glasses or goggles — required per H319 classification

Hand Protection

Nitrile gloves

Body Protection

Laboratory coat

Respiratory Protection

P1/P2 particulate respirator when weighing or handling bulk powder

Section 9 — Physical and Chemical Properties

Appearance

White powder, with ammoniacal odour

Molecular Weight

226.18 g/mol

Solubility in Water

Soluble

pH (aqueous solution)

4.5 to 5.5

Section 10 — Stability and Reactivity

Chemical Stability

Stable under recommended storage conditions

Possibility of Hazardous Reactions

None known under normal conditions

Conditions to Avoid

Moisture ingress

Incompatible Materials

None known

Section 11 — Toxicological Information

Acute Toxicity	Not classified for acute oral/dermal toxicity based on available data
Serious Eye Damage/Irritation	Causes serious eye irritation (Category 2)
Respiratory Irritation	May cause respiratory irritation (STOT-SE Category 3)
Skin Corrosion/Irritation	Not classified
Carcinogenicity / Mutagenicity / Reproductive Toxicity	Not classified

Section 12 — Ecological Information

Ecotoxicity	Not expected to be harmful to aquatic organisms at anticipated environmental concentrations
Persistence and Degradability	Readily biodegradable organic salt
Bioaccumulative Potential	Not expected to bioaccumulate

Section 13 — Disposal Considerations

Disposal Method	Dissolve or mix with a combustible solvent and incinerate in a chemical incinerator, or dispose of as general laboratory chemical waste via a licensed waste contractor in accordance with EPA (Victoria) requirements.
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Section 14 — Transport Information

UN Number	Not applicable — not classified as dangerous goods
Transport Hazard Class	Not applicable — ADG, IMDG, IATA: Not Dangerous Goods

Section 15 — Regulatory Information

Australian Regulations	Not classified as a Scheduled Poison under the SUSMP. Listed on the Australian Inventory of Industrial Chemicals (AIIC) where applicable.
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International Inventories

EC number 221-146-3; listed on relevant chemical inventories (TSCA, EINECS) where applicable

Section 16 — Other Information

Preparation Date August 2026

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Key Data Sources Manufacturer SDS data for di-Ammonium hydrogen citrate (CAS 3012-65-5); supplier Certificate of Analysis

Disclaimer

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