AuSaMicS™ Life Science

SAFETY DATA SHEET

SDS-ASC-8065 | Rev 1.0
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Magnesium Citrate, Anhydrous — Catalogue No. ASC-8065

Prepared in accordance with the Safe Work Australia *Model Code of Practice: Preparation of Safety Data Sheets for Hazardous Chemicals* and the GHS (Revision 7) as adopted under the Australian WHS Regulations.

Date of issue: 20/08/2024 | **Revision:** 1.0 | **Supersedes:** New issue

1. Identification

Product identifier	Magnesium Citrate, Anhydrous
Catalogue number	ASC-8065
Other names	Trimagnesium dicitrate anhydrous; trimagnesium citrate; tribasic magnesium citrate; E345(i)
Recommended use	Magnesium source for dietary supplements, pharmaceutical manufacture and food fortification. Laboratory use.
Restrictions on use	Use in foods and therapeutic goods only as permitted by applicable regulations.
Supplier	AuSaMicS Pty Ltd 36/25 Trafalgar Road, Epping VIC 3076, Australia ABN 56 676 640 467
Contact	Phone: +61 412 520 598 Email: support@ausamics.com Web: www.ausamics.com.au
Emergency telephone	Poisons Information Centre (Australia, 24 h): 13 11 26 Supplier (business hours): +61 412 520 598

2. Hazard Identification

Classified as **hazardous** according to the criteria of the WHS Regulations (GHS Revision 7). Not classified as Dangerous Goods for transport.

GHS classification	Skin corrosion/irritation — Category 2 Serious eye damage/eye irritation — Category 2A Specific target organ toxicity, single exposure (respiratory tract irritation) — Category 3
Signal word	**WARNING**

Hazard pictogram



GHS07 — Exclamation mark

Hazard statements

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.

Precautionary statements

- **Prevention:** P261 Avoid breathing dust. P264 Wash hands thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves and eye protection.
- **Response:** P302+P352 IF ON SKIN: Wash with plenty of water. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 Call a POISON CENTER or doctor if you feel unwell. P332+P313 If skin irritation occurs: Get medical advice. P337+P313 If eye irritation persists: Get medical advice. P362+P364 Take off contaminated clothing and wash it before reuse.
- **Storage:** P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.
- **Disposal:** P501 Dispose of contents and container in accordance with local regulations.

Other hazards

Fine dust may form combustible dust clouds. Swallowing large amounts has a laxative effect.

3. Composition / Information on Ingredients

Substance.

Ingredient	CAS No.	EC No.	Content (% w/w)
Trimagnesium dicitrate, anhydrous	3344-18-1	222-093-9	≥ 98

4. First Aid Measures

Inhalation	Move to fresh air and keep at rest. Seek medical advice if symptoms persist.
Skin contact	Remove contaminated clothing. Wash skin with plenty of water. Seek medical advice if irritation develops.
Eye contact	Rinse cautiously with water for at least 15 minutes, holding eyelids open. Remove contact lenses if easy to do. Seek medical advice if irritation persists.
Ingestion	Do not induce vomiting. Rinse mouth and give water to drink slowly. Seek medical advice if a large amount has been swallowed.
Symptoms	Eye, skin and respiratory irritation. Large oral doses cause diarrhoea. Hypermagnesaemia is rare without kidney or bowel disease.
Advice to doctor	Treat symptomatically. Calcium gluconate is an antagonist in symptomatic hypermagnesaemia.

5. Fire Fighting Measures

Suitable extinguishing media	Foam, dry chemical powder, carbon dioxide or water spray, as appropriate for the surrounding fire.
Specific hazards	Combustible solid that propagates flame with difficulty. Fine dust clouds may be explosive. Combustion produces carbon oxides and magnesium oxide.
Advice for fire fighters	Wear self-contained breathing apparatus and protective gloves.

Hazchem code	None allocated

6. Accidental Release Measures

Personal precautions	Avoid generating dust. Wear gloves, eye protection and a P2 respirator where dust is present.
Environmental precautions	Prevent large quantities from entering drains or waterways.
Clean-up	Sweep or vacuum without raising dust. Place in a clean, dry, labelled container for reuse or disposal.

7. Handling and Storage

Safe handling	Avoid breathing dust and contact with eyes and skin. Use in a well-ventilated area. Wash hands after use.
Storage conditions	Store at 15–25 °C in the original, tightly closed container. Keep dry and away from direct sunlight.
Suitable containers	Polyethylene, polypropylene or glass.
Incompatible materials	Strong oxidising agents.

8. Exposure Controls / Personal Protection

Workplace exposure standards	No Safe Work Australia exposure standard is assigned. Keep inhalable dust as low as reasonably practicable.
Engineering controls	Local exhaust ventilation where powder is weighed, blended or transferred.
Eye protection	Safety glasses with side shields or chemical goggles (AS/NZS 1337.1).
Hand protection	Nitrile, neoprene or butyl rubber gloves (AS/NZS 2161).
Respiratory protection	P2 particulate respirator (AS/NZS 1716) where dust cannot be controlled.
Body protection	Laboratory coat or overalls.

9. Physical and Chemical Properties

Appearance	White to off-white powder or granules
Odour	Odourless
pH	5.0–9.0 (50 mg/mL suspension)
Solubility in water	Soluble; freely soluble in dilute acids
Molecular weight	451.12 g/mol
Melting point	Not determined; decomposes on strong heating
Flash point / flammability	Not applicable; combustible dust
Vapour pressure	Negligible

10. Stability and Reactivity

Reactivity	No hazardous reactions under normal conditions.
Chemical stability	Stable under recommended storage conditions. Slightly hygroscopic.
Hazardous polymerisation	Will not occur.
Conditions to avoid	Moisture, dust generation and ignition sources.
Incompatible materials	Strong oxidising agents.
Hazardous decomposition products	Carbon oxides and magnesium oxide.

11. Toxicological Information

Acute toxicity	Oral LD50 (mouse): 5,400 mg/kg Dermal LD50 (rat): > 2,000 mg/kg Not classified for acute toxicity.
Skin corrosion/irritation	Classified as a skin irritant (Category 2).
Eye damage/irritation	Classified as an eye irritant (Category 2A).
Sensitisation	Not classified.
Germ cell mutagenicity	Not classified.
Carcinogenicity	Not classified. Not listed by IARC.
Reproductive toxicity	Not classified.
STOT — single exposure	May cause respiratory irritation (Category 3).
STOT — repeated exposure	Not classified.
Oral intake	Large doses have an osmotic laxative effect. Upper level for supplemental magnesium in adults: 350 mg/day (NHMRC).

12. Ecological Information

Endpoint	Duration	Species	Value
NOEC	192 h	Algae	425 mg/L

Data from ECHA registered substances. Low persistence, low bioaccumulation potential (log Kow −1.67) and low mobility in soil. Do not discharge large quantities into drains or waterways.

13. Disposal Considerations

Dispose of product and contaminated packaging in accordance with local, state and federal regulations. Recycle unused, uncontaminated material where possible.

14. Transport Information

Road and rail (ADG Code)	Not regulated as Dangerous Goods
Sea (IMDG)	Not regulated
Air (IATA)	Not regulated
UN number / Hazchem	None allocated
Marine pollutant	No

15. Regulatory Information

Australian WHS classification	Hazardous chemical
Poisons Standard (SUSMP)	Not scheduled
AIIC	Listed on the Australian Inventory of Industrial Chemicals.
Food and supplement use	Governed by the Food Standards Code and TGA requirements in Australia. In the EU: permitted mineral form (Directive 2002/46/EC) and food additive E345(i).

16. Other Information

Date of preparation	20/08/2024
Revision	1.0 — first issue
Basis of classification	Classification aligned with the upstream supplier Safety Data Sheet (Chemwatch 57591, version 8.1).
Abbreviations	GHS — Globally Harmonized System of Classification and Labelling of Chemicals LD50 — dose lethal to 50% of test animals NOEC — no observed effect concentration STOT — Specific Target Organ Toxicity

This Safety Data Sheet summarises health and safety information for the product as supplied. It does not replace a site-specific risk assessment. The information in this document is based on current technical knowledge and is provided in good faith for laboratory and technical evaluation purposes. It does not constitute a warranty of fitness for a particular purpose. Users are responsible for validating the product within their own methods and for complying with applicable regulations. AuSaMicS Pty Ltd accepts no liability for loss or damage arising from use of this information. © AuSaMicS Pty Ltd. All rights reserved.