

Calcium Disodium EDTA (Food Grade) — Catalogue No. BA-1024

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.

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1. Identification

Product identifier	Calcium Disodium EDTA (Food Grade)
Catalogue number	BA-1024
Other names	Calcium disodium ethylenediaminetetraacetate; edetate calcium disodium; sodium calcium edetate; CaNa ₂ EDTA; E385; INS 385
Recommended use	Food additive (sequestrant, preservative) for food manufacturing. Laboratory use.
Restrictions on use	Use in food only as permitted by the Australia New Zealand Food Standards Code or the regulations of the target market. Not for therapeutic use.
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 Skin sensitisation — Category 1 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.
- H317 May cause an allergic skin reaction.
- 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. P272 Contaminated work clothing should not be allowed out of the workplace. 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. P333+P313 If skin irritation or rash 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 powder may form combustible dust clouds. These hazards apply to the concentrated powder, not to finished foods containing permitted levels of the additive.

3. Composition / Information on Ingredients

Substance.

Ingredient	CAS No.	EC No.	Content (% w/w)
Calcium disodium ethylenediaminetetraacetate (mainly dihydrate)	62-33-9 (anhydrous); 23411-34-9 (hydrate)	200-529-9	≥ 99

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 or rash 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	Rinse mouth and give a glass of water. First aid is not generally required. If in doubt, contact the Poisons Information Centre (13 11 26) or a doctor.
Symptoms	Irritation of eyes, skin and respiratory tract. Repeated skin contact may cause allergic dermatitis in sensitive people.
Advice to doctor	Treat symptomatically.

5. Fire Fighting Measures

Suitable extinguishing media	Water spray, foam, dry chemical powder or carbon dioxide.
Specific hazards	Combustible solid that propagates flame with difficulty. Fine dust clouds may be explosive. Combustion produces carbon oxides, nitrogen oxides and metal oxides.
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 spillage from entering drains or waterways.
Clean-up	Sweep or vacuum without raising dust. Place in a clean, dry, labelled container for reuse or disposal. Wash the area with water and prevent run-off into drains.

7. Handling and Storage

Safe handling	Avoid breathing dust and contact with eyes and skin. Use in a well-ventilated area. Do not eat, drink or smoke while handling. Wash hands after use.
Storage conditions	Store at 15–25 °C in the original, tightly closed container. Keep dry and away from direct sunlight. Keep separate from incompatible materials.
Suitable containers	Polyethylene or polypropylene.
Incompatible materials	Strong oxidising agents; strong bases; metals such as aluminium, zinc, copper, copper alloys, nickel, galvanised and carbon steel.

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 or transferred.
Eye protection	Safety glasses with side shields or chemical goggles (AS/NZS 1337.1).
Hand protection	Nitrile, neoprene or PVC gloves (AS/NZS 2161).
Respiratory protection	P2 particulate respirator (AS/NZS 1716) where dust cannot be controlled.
Body protection	Laboratory coat or overalls. Eye-wash facility nearby.

9. Physical and Chemical Properties

Appearance	White crystalline powder or granules
Odour	Odourless
pH	6.5–7.5 (1% aqueous solution)
Melting point	> 300 °C
Solubility in water	Freely soluble
Molecular weight	410.30 g/mol (dihydrate); 374.27 g/mol (anhydrous)
Flash point / flammability	Not applicable; combustible dust
Vapour pressure	Negligible
Relative density	Not determined

10. Stability and Reactivity

Reactivity	Chelates metal ions. May react with reactive metals such as aluminium to release hydrogen.
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	See Section 7.
Hazardous decomposition products	Carbon oxides, nitrogen oxides and metal oxides.

11. Toxicological Information

Acute toxicity	Oral LD50 (rat): 10,000 mg/kg Dermal LD50 (rat): > 2,000 mg/kg Inhalation LC50 (rat, 4 h): > 2.75 mg/L Not classified for acute toxicity.
Skin corrosion/irritation	Classified as a skin irritant (Category 2).
Eye damage/irritation	Irritating to eyes (Category 2A).
Sensitisation	May cause skin sensitisation (Category 1).
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.
Dietary safety	JECFA acceptable daily intake: 0–2.5 mg/kg body weight. Only 2–4% of an oral dose is absorbed in rats.

12. Ecological Information

Endpoint	Duration	Species	Value
EC50	72 h	Algae	2.77 mg/L
NOEC	72 h	Algae	0.39 mg/L
LC50	96 h	Fish	41 mg/L
EC50	48 h	Crustacea	100.9 mg/L

Data from ECHA registered substances. EDTA is slowly biodegradable, has low bioaccumulation potential and is mobile in water. It can remobilise heavy metals from sediments. 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. Return to supplier or recycle where possible. Do not allow wash water from cleaning equipment to enter drains in large amounts.

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)	Sodium calcium edetate is listed in Schedule 4 for therapeutic use. Food additive use is governed by the Food Standards Code.
Food Standards Code	Food additive 385 — permitted only in the foods and at the levels listed in Schedule 15.
AIIC	Listed on the Australian Inventory of Industrial Chemicals.
International	JECFA / Codex INS 385; EU E385; US 21 CFR 172.120.

16. Other Information

Date of preparation	24/09/2024
Revision	1.0 — first issue
Basis of classification	Classification aligned with the upstream supplier Safety Data Sheet (Chemwatch 25943, version 7.1).
Abbreviations	GHS — Globally Harmonized System of Classification and Labelling of Chemicals LD50 / LC50 — lethal dose / concentration for 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.