

Safety Data Sheet ETHYLENEDIAMINETETRAACETIC ACID Disodium salt dihydrate

SDS no. RV5RKKYE • Version 1.0 • Date of issue: 2025-10-17

SECTION 1: Identification

GHS Product identifier

Product name ETHYLENEDIAMINETETRAACETIC ACID Disodium salt dihydrate

Other means of identification

Product Product Code

Ethylenediaminetetraacetic Acid Disodium Salt AR	EA023
Ethylenediaminetetraacetic Acid Disodium Salt LR	EL023
EDTA Disodium Salt USP/BP	EP023
EDTA Disodium Salt TG	ET023

Recommended use of the chemical and restrictions on use

Detergents, liquid soaps, shampoos, agricultural chemical sprays, metal cleaning and plating, metal chelating agent, treatment of chlorosis, decontamination of radioactive surfaces, metal deactivator in vegetable oils, oil emulsions and pharmaceutical products, anticoagulant of blood, eluting agent in ion exchange, antioxidant, textiles, clarification of liquids, spectrophotometric titration, aid in reducing blood cholesterol, food preservative, medicine to treat lead poisoning and calcinosis, removing calcium insoluble deposits of calcium and magnesium soaps and analytical chemistry and laboratory reagent.

Supplier's details

Name	ChemSupply Australia Pty Ltd
Address	38-50 Bedford Street 5013 Gillman South Australia Australia
Telephone	08 8440 2000
email	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, inhalation, Cat. 4
- Specific target organ toxicity following repeated exposure, Cat. 2

Safety Data Sheet

ETHYLENEDIAMINETETRAACETIC ACID Disodium salt dihydrate

SDS no. RV5RKKYE • Version 1.0 • Date of issue: 2025-10-17

GHS label elements, including precautionary statements

Pictograms



Signal word

Warning

Hazard statement(s)

H332

Harmful if inhaled

H373

May cause damage to organs [respiratory tract] through prolonged or repeated exposure [inhalation]

Precautionary statement(s)

P260

Do not breathe dust/fume/gas/mist/vapors/spray.

P261

Avoid breathing dust/fume/gas/mist/vapors/spray.

P271

Use only outdoors or in a well-ventilated area.

P304+P340

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312

Call a POISON CENTER/doctor/physician if you feel unwell.

P314

Get medical advice/attention if you feel unwell.

P501

Dispose of contents/container to an approved waste disposal facility

Other hazards which do not result in classification

[01] Hazard statement(s): H332 Harmful if inhaled.; H373 May cause damage to organs (Respiratory Tract) through prolonged or repeated exposure.

[03] Pictogram(s): Exclamation mark, Health hazard

[Q2] Precautionary statement – Prevention: P260 Do not breathe dust/fume/gas/mist/vapours/spray.; P271 Use only outdoors or in a well-ventilated area.

[Q3] Precautionary statement – Response: P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.; P312 Call a POISON CENTER or doctor/physician if you feel unwell.; P314 Get medical advice/attention if you feel unwell.

[Q5] Precautionary statement – Disposal: P501 Dispose of contents/container to an approved waste disposal plant

SECTION 3: Composition/information on ingredients

Mixtures

Molecular weight	372.24
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Component	Identification	Weight %	Classifications
Ethylenediaminetetraacetic acid disodium salt dihydrate	CAS no.: 6381-92-6 EC no.: 205-358-3	<= 100 %	CLASSIFICATIONS: Acute toxicity, inhalation, Cat. 4; Specific target organ toxicity, repeated exposure, Cat. 2. HAZARDS: H332 - Harmful if inhaled; H373 - May cause damage to organs [organs] through prolonged or repeated exposure [route].

Safety Data Sheet

ETHYLENEDIAMINETETRAACETIC ACID Disodium salt dihydrate

SDS no. RV5RKKYE • Version 1.0 • Date of issue: 2025-10-17

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice	First Aid Facilities: Maintain eyewash fountain in work area.
If inhaled	If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.
In case of skin contact	Immediately remove contaminated clothing and wash affected area with water for at least 15 minutes. Ensure contaminated clothing is washed before re-use.
In case of eye contact	If contact with the eye(s) occurs, wash with copious amounts of water for approximately 15 minutes holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. If persistent irritation occurs, 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

For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Small fire: Use dry chemical, CO₂, water spray or foam.

Large fire: Use water spray, fog or foam.

Specific hazards arising from the chemical

May liberate toxic fumes in fire such as oxides of carbon and nitrogen.

Special protective actions for fire-fighters

Wear SCBA and structural firefighter's uniform.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Do not flush with water. Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

Precautions for safe handling

Ensure adequate ventilation. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Avoid dust formation. For precautions see section 2.2.

Conditions for safe storage, including any incompatibilities

Safety Data Sheet

ETHYLENEDIAMINETETRAACETIC ACID Disodium salt dihydrate

SDS no. RV5RKKYE • Version 1.0 • Date of issue: 2025-10-17

Keep container tightly closed in a dry and well-ventilated place.

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.

Body protection

Footwear: Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.

Body Protection: 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

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/ mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/ NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/ NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Solid
Appearance	White powder or crystals.
Color	No data available.
Odor	Odourless.
Odor threshold	No data available.
Melting point/freezing point	248-255 °C (decomposes)
Boiling point or initial boiling point and boiling range	Not applicable (decomposition).
Flammability	No data available.
Lower and upper explosion limit/ flammability limit	No data available.
Flash point	No data available.
Explosive properties	No data available.
Auto-ignition temperature	No data available.

Safety Data Sheet

ETHYLENEDIAMINETETRAACETIC ACID Disodium salt dihydrate

SDS no. RV5RKKYE • Version 1.0 • Date of issue: 2025-10-17

Decomposition temperature	No data available.
Oxidizing properties	No data available.
pH	4 - 5 (50 g/l H ₂ O, 20 °C)
Kinematic viscosity	No data available.
Solubility	Solubility in Water: Soluble.
Partition coefficient n-octanol/ water (log value)	No data available.
Vapor pressure	No data available.
Evaporation rate	No data available.
Density and/or relative density	No data available.
Relative vapor density	No data available.
Particle characteristics	No data available.

Supplemental information regarding physical hazard classes

No data available.

Further safety characteristics (supplemental)

Other Information: Has characteristics of weak acid, displacing CO₂ from carbonates and reacting with metals to form hydrogen.

SECTION 10: Stability and reactivity

Reactivity

Stable under normal conditions of storage and handling.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

Hazardous Polymerization: Will not occur.

Conditions to avoid

High temperatures above 150 °C, releases water of crystallisation when heated.

Incompatible materials

Strong oxidisers, aluminium, nickel, zinc, copper and copper alloys.

Hazardous decomposition products

May liberate toxic fumes in fire such as oxides of carbon and nitrogen.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Acute Toxicity - Oral: LD₅₀ Rat: 2,800 mg/kg - OECD Test Guideline 401

Ingestion: Disturbed electrolyte balance. After swallowing of large amounts: Damage of kidneys.

Inhalation: Harmful if inhaled.

Safety Data Sheet

ETHYLENEDIAMINETETRAACETIC ACID Disodium salt dihydrate

SDS no. RV5RKKEYE • Version 1.0 • Date of issue: 2025-10-17

Causes slight irritation to the respiratory tract. Symptoms include coughing and sneezing.

Skin corrosion/irritation

May causes mild irritation when in contact with skin. Symptoms may include reddening or inflammation on prolonged contact.

Serious eye damage/irritation

Contact may cause transient irritation.

Respiratory or skin sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

Specific target organ toxicity (STOT) - single exposure

Not classified based on available information.

Specific target organ toxicity (STOT) - repeated exposure

STOT Repeated Exposure: Category 2

H373 May cause damage to organs (Respiratory Tract) through prolonged or repeated exposure.

Aspiration hazard

Not classified based on available information.

SECTION 12: Ecological information

Toxicity

Acute Toxicity - Fish:

LC50 *Poecilia reticulata* (guppy): ca. 320 mg/l; 96 h
(anhydrous substance) (IUCLID)

Persistence and degradability

Readily biodegradable.

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

Safety Data Sheet

ETHYLENEDIAMINETETRAACETIC ACID Disodium salt dihydrate

SDS no. RV5RKKYE • Version 1.0 • Date of issue: 2025-10-17

IATA

Not dangerous goods

SECTION 15: Regulatory information

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

Australia SUSMP

Poison Schedule: NS

SECTION 16: Other information

Further information/disclaimer

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Preparation information

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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 for 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 Airborne 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)