

Safety Data Sheet DIETHYLENTRIAMINEPENTA ACETIC ACID

SDS no. 3BZ45JUJ • Version 1.0 • Date of issue: 2025-11-18

SECTION 1: Identification

GHS Product identifier

Product name DIETHYLENTRIAMINEPENTA ACETIC ACID

Other means of identification

Product Product Code

DIETHYLENTRIAMINEPENTA ACETIC ACID LR DL135
DTPA

Recommended use of the chemical and restrictions on use

Laboratory chemicals.

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
- Serious eye damage/eye irritation, Cat. 2
- Toxic to reproduction, Cat. 2
- Specific target organ toxicity following repeated exposure, Cat. 2

GHS label elements, including precautionary statements

Pictograms

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Signal word

Warning

Hazard statement(s)

H319
H332
H361
H373

Causes serious eye irritation
Harmful if inhaled
Suspected of damaging fertility or the unborn child
May cause damage to organs through prolonged or repeated exposure

Precautionary statement(s)

P260
P280
P304+P340
P305+P351+P338

P312
P337+P313
P501

Do not breathe dust/fume/gas/mist/vapors/spray.
Wear protective gloves/protective clothing/eye protection/face protection.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Call a POISON CENTER/doctor/physician if you feel unwell.
If eye irritation persists: Get medical advice/attention.
Dispose of contents/container to an approved waste disposal facility

SECTION 3: Composition/information on ingredients

Mixtures

| | |
|-------------------------|--------|
| Molecular weight | 393.35 |
|-------------------------|--------|

| Component | Identification | Weight % |
|------------------------------------|--|-----------------|
| Diethylenetriaminepentaacetic acid | CAS no.: 67-43-6 EC no.: 200-652-8 Index no.: 607-735-00-1 | 100 % |

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

Rinse with plenty of water. Get medical attention if irritation develops and persists.

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.

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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

Dry chemical powder. Water fog. Carbon dioxide (CO₂).

Unsuitable Extinguishing Media: Do not use water jet to extinguish, this will spread the fire.

Specific hazards arising from the chemical

Hazards from Combustion Products: Oxides of carbon and nitrogen.

Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation. For personal protection see section 8.

Methods and materials for containment and cleaning up

Do not let material enter waterways, sewers, confined areas or basements.

Once material has been swept up wash area with water.

Material and container must be disposed of as Hazardous waste.

SECTION 7: Handling and storage

Precautions for safe handling

Avoid contact with skin and eyes. Do not eat, drink or smoke while handling. Wash hands with soap and water after handling. For precautions see section 2.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area, out of direct sunlight. Store in suitable, labelled containers. Keep containers tightly closed. Store away from incompatible materials. Ensure that storage conditions comply with applicable local and national regulations.

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

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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 and 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 | |
| Appearance | |
| Color | White |
| Odor | Odourless |
| Odor threshold | |
| Melting point/freezing point | No data available. |
| Boiling point or initial boiling point and boiling range | No data available. |
| Flammability | No data available. |
| Lower and upper explosion limit/ flammability limit | No data available. |
| Flash point | 200 °C - closed cup |
| Auto-ignition temperature | 387 - 397 °C |
| Decomposition temperature | 235°C |
| pH | 2.5 (saturated solution) |
| Kinematic viscosity | No data available. |
| Solubility | Solubility in Water: 5 g/L |
| Partition coefficient n-octanol/ water (log value) | log Pow: -4.90 |
| Vapor pressure | No data available. |
| Density and/or relative density | Specific Gravity: 1.56 |
| Relative vapor density | No data available. |
| Particle characteristics | No data available. |

SECTION 10: Stability and reactivity

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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

Dust may form explosive mixture in air. Heat, flames and sparks.

Contact with incompatible materials.

Temperatures exceeding the decomposition temperature.

Incompatible materials

Strong oxidising agents.

Hazardous decomposition products

If product is burnt hazardous gases such as oxides of carbon and nitrogen and various hydrocarbons may be produced.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Acute Toxicity - Oral: LD50 Oral - Rat - male and female - > 5,000 mg/kg
(OECD Test Guideline 401)

Inhalation: Acute toxicity, Inhalation Category 4
Harmful if inhaled.

Skin corrosion/irritation

Acute Toxicity - Dermal: LD50 Dermal - Rat - male and female - > 2,000 mg/kg
(OECD Test Guideline 402)

Serious eye damage/irritation

Serious eye damage/irritation: Serious eye damage/eye irritation (Category 2A)
H319 Causes serious eye 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

Reproductive toxicity (Category 2)

H361 Suspected of damaging fertility or the unborn child.

Specific target organ toxicity (STOT) - single exposure

Not classified based on available information.

Specific target organ toxicity (STOT) - repeated exposure

Specific target organ toxicity - repeated exposure, Inhalation (Category 2)

H373 May cause damage to organs (respiratory Tract) through prolonged or repeated exposure if inhaled.

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Aspiration hazard

Not classified based on available information.

SECTION 12: Ecological information

Toxicity

Ecotoxicity: Toxic to aquatic life with long lasting effects.

Acute Toxicity - Other Organisms: Crustacea LC50 Water flea (*Daphnia carinata*) 200-400 mg/l (48 hrs)

Crustacea LC50 Water flea (*Daphnia carinata*) 168.5 - 678.6 mg/l (24 hrs)

Other adverse effects

Other Adverse Effects: No other adverse environmental effects are expected from this component.

(e.g ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential.)

Other Information: An environment hazard cannot be excluded in the event of unprofessional handling or disposal.

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

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 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)