



Infosafe No™	3CH4Z	Issue Date : September 2013	RE-ISSUED by CHEMSUPP
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Product Name : **trans-1,2-DIAMINOCYCLOHEXANE-N,N,N',N'-TETRAACETIC ACID MONOHYDRATE**

Classified as hazardous

## 1. Identification

**GHS Product Identifier** trans-1,2-DIAMINOCYCLOHEXANE-N,N,N',N'-TETRAACETIC ACID MONOHYDRATE

**Company Name** CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)

**Address** 38 - 50 Bedford Street GILLMAN  
SA 5013 Australia

**Telephone/Fax Number** Tel: (08) 8440-2000  
Fax: (08) 8440-2001

**Recommended use of the chemical and restrictions on use** Chelating agent similar to ethylenediaminetetraacetic acid, ligand used to prepare lanthanide shift reagents and laboratory reagent.

**Other Names**

<u>Name</u>	<u>Product Code</u>
1,2-Cyclohexylenedinitrilotetraacetic acid monohydrate	
trans-1,2-DIAMINOCYCLOHEXANE-N,N,N',N'-TETRAACETIC ACID MONOHYDRATE AR	DA133
DCTA	
CDTA	

**Other Information** EMERGENCY CONTACT NUMBER: +61 08 8440 2000  
Business hours: 8:30am to 5:00pm, Monday to Friday.

Chem-Supply Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Chem-Supply Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Chem-Supply Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

## 2. Hazard Identification

**GHS classification of the substance/mixture** Eye Damage/Irritation: Category 2A  
Skin Corrosion/Irritation: Category 2  
STOT Single Exposure Category 3

**Signal Word (s)** WARNING

**Hazard Statement (s)** H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

**Pictogram (s)** Exclamation mark



**Precautionary statement – Prevention** P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash ... thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Precautionary statement – Response** P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position 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.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
P362 Take off contaminated clothing and wash before reuse.



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**Precautionary statement – Storage** Store in a well-ventilated place. Keep container tightly closed. Store locked up.

### 3. Composition/information on ingredients

**Chemical** Solid

**Characterization**

<b>Ingredients</b>	<b>Name</b>	<b>CAS</b>	<b>Proportion</b>	<b>Hazard Symbol</b>	<b>Risk Phrase</b>
	trans-1,2-Diaminocyclohexane-N,N,N',N'-tetraacetic acid monohydrate	125572-95-4	100 %	Xi	R36/37/38

### 4. First-aid measures

**Inhalation** Remove from exposure, rest and keep warm. If breathing has stopped, apply artificial respiration. If symptoms develop, obtain medical attention.

**Ingestion** Rinse mouth thoroughly with water immediately. Give plenty of water to drink. Never give anything by mouth to an unconscious person. If swallowed, do NOT induce vomiting. Seek medical attention in severe cases, or if large amounts ingested.

**Skin** Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. Seek medical attention.

**Eye contact** Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek medical attention.

**First Aid Facilities** Maintain eyewash fountain and drench facilities in work area.

**Advice to Doctor** Treat symptomatically and supportively.

**Other Information** For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.

### 5. Fire-fighting measures

**Suitable extinguishing media** Dry chemical, CO<sub>2</sub>, alcohol resistant foam, water spray or foam.

**Hazards from Combustion Products** Irritating and toxic fumes and gases, nitrogen oxides (NO, NO<sub>2</sub>, NO<sub>x</sub>), carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>).

**Decomposition Temp.** 213-216 °C (melting range)

**Precautions in connection with Fire** Wear SCBA and structural firefighter's uniform.

### 6. Accidental release measures

**Personal Precautions** Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.

**Personal Protection** Wear protective clothing specified for normal operations (see Section 8)

**Clean-up Methods - Small Spillages** Sweep up (avoid generating dust) and remove to a suitable, clearly labelled container for disposal in accordance with local regulations.

**Environmental Precautions** Prevent contamination of soil and water.

### 7. Handling and storage

**Precautions for Safe Handling** Avoid ingestion and inhalation of dusts. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Use with adequate ventilation. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse.

**Conditions for safe storage, including any incompatibilities** Store in tightly closed containers, in a cool, dry, well-ventilated area.

### 8. Exposure controls/personal protection

**Other Exposure Information** A time weighted average (TWA) concentration for an 8 hour day, and 5 day week has not been established by Safe Work Australia for this product. There is a blanket limit of 10 mg/m<sup>3</sup> for dusts when



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<b>Appropriate engineering controls</b>	limits have not otherwise been established. In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.
<b>Respiratory Protection</b>	Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.
<b>Eye Protection</b>	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.
<b>Hand Protection</b>	Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.
<b>Body Protection</b>	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.
<b>Hygiene Measures</b>	Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

## 9. Physical and chemical properties

<b>Form</b>	Solid
<b>Appearance</b>	White, or slightly beige, fine crystals, or crystalline powder.
<b>Decomposition Temperature</b>	213-216 °C (melting range)
<b>Melting Point</b>	213-216 °C (decomposes)
<b>Solubility in Water</b>	Very slightly soluble.
<b>Solubility in Organic Solvents</b>	Insoluble in most common organic solvents; partially soluble in dimethyl formamide and dimethyl sulfoxide upon heating.
<b>Volatile Component</b>	0 %vol @ 21 °C
<b>Flammability</b>	Combustible.
<b>Explosion Properties</b>	Finely dispersed dust in air in sufficient concentrations, and on exposure to an ignition source is a potential dust explosion hazard.
<b>Molecular Weight</b>	364.35

## 10. Stability and reactivity

<b>Chemical Stability</b>	Stable under normal temperatures, pressures and conditions of use and storage.
<b>Conditions to Avoid</b>	Heat, flames, sparks, and other sources of ignition, dust generation and incompatible materials.
<b>Incompatible Materials</b>	Strong oxidising agents.
<b>Hazardous Decomposition Products</b>	Irritating and toxic fumes and gases, nitrogen oxides, carbon monoxide, carbon dioxide, and possibly hydrogen cyanide.
<b>Hazardous Polymerization</b>	Will not occur.

## 11. Toxicological Information

<b>Toxicology Information</b>	The toxicological properties of this substance have not been fully investigated.
<b>Ingestion</b>	May be harmful if swallowed. Causes irritation to the gastrointestinal tract. Only very slightly absorbable via the gastrointestinal tract. Symptoms may include damage of mucous membranes, nausea, vomiting and diarrhoea. Severe exposures may be fatal. Ingestion of large amounts may lead to changes in the blood picture and damage to the kidneys.
<b>Inhalation</b>	May be harmful if inhaled. Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath. Severe exposures may be fatal.
<b>Skin</b>	Causes irritation to skin. Symptoms include redness, itching, and pain. May be absorbed through the



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<b>Eye</b>	skin in harmful amounts. Causes irritation, redness, and pain.
<b>Carcinogenicity</b>	Not listed in the IARC Monographs.
<b>Chronic Effects</b>	Repeated or prolonged exposure may affect the blood, and cause damage to the kidneys.

## 12. Ecological information

<b>Ecological Information</b>	No ecological problems are to be expected when the product is handled and used with due care and attention.
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## 13. Disposal considerations

<b>Disposal Considerations</b>	Dispose of according to relevant local, state and federal government regulations.
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## 14. Transport information

<b>Transport Information</b>	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
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## 15. Regulatory information

<b>Poisons Schedule</b>	Not Scheduled
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## 16. Other Information

<b>Literature References</b>	<p>'Standard for the Uniform Scheduling of Medicines and Poisons No. 3', Commonwealth of Australia, June 2012.</p> <p>Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997.</p> <p>National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007.</p> <p>'Labelling of Hazardous Workplace Chemicals, Code of Practice' Safe Work Australia.</p> <p>Standards Australia 'AS 1940-2004 The Storage and Handling of Flammable and Combustible Liquids.</p> <p>Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010.</p> <p>Worksafe Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(2004)]'.</p> <p>Worksafe Australia, 'Hazardous Substances Information System, 2005'.</p> <p>Worksafe Australia, 'National Code of Practice for the Labelling of Workplace Hazardous Substances (2011)'.</p> <p>Worksafe Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]'.</p>
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<b>Contact Person/Point</b>	<p>Paul McCarthy Ph. (08) 8440 2000 <b>DISCLAIMER STATEMENT:</b></p> <p>All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. Chem-Supply accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.</p>
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<b>Empirical Formula &amp; Structural Formula</b>	<p>Empirical Formula: C<sub>14</sub> H<sub>22</sub> N<sub>2</sub> O<sub>8</sub>•H<sub>2</sub>O.</p> <p>Structural Formula: C<sub>6</sub>H<sub>10</sub>[N(CH<sub>2</sub>COOH)<sub>2</sub>]<sub>2</sub>•H<sub>2</sub>O.</p>
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