



Infosafe No™ 1CHAY Issue Date : October 2020 RE-ISSUED by CHEMSUPP

Product Name **ETHYLENEDIAMINETETRAACETIC ACID**

Classified as hazardous

**1. Identification**

**GHS Product Identifier** ETHYLENEDIAMINETETRAACETIC ACID

**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

**Emergency phone number** CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

**E-mail Address** www.chemsupply.com.au

**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, analytical chemistry, antioxidant (in food industry), synthesis of organic products, for pharmaceuticals synthesizing and laboratory reagent.

Other Names	Name	Product Code
	EDTA Acid, Ethylenedinitrilotetraacetic acid, Edetic acid	
	EDTA Acid LR	EL022
	EDTA Acid AR	EA022

**Additional Information** If this compound is for human therapeutic use, then it may acquire a poison schedule of S4. When used for laboratory chemical analysis, it has no poison schedule.

**Other Information** 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

**Signal Word (s)** WARNING

**Hazard Statement (s)** H319 Causes serious eye irritation.

**Pictogram (s)** Exclamation mark



**Precautionary statement – Prevention** P264 Wash contaminated skin thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Precautionary statement – Response** 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.



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**3. Composition/information on ingredients**

Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	EDTA Acid	60-00-4	100 %

**4. First-aid measures**

<b>Inhalation</b>	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.
<b>Ingestion</b>	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. Give water to drink. DO NOT INDUCE VOMITING. Seek medical advice if symptoms persist.
<b>Skin</b>	Wash affected areas with copious quantities of water. If persistent irritation occurs, obtain medical attention.
<b>Eye contact</b>	Rinse immediately with plenty of water for at least 10 minutes and seek medical advice. If persistent irritation occurs, obtain medical attention.
<b>First Aid Facilities</b>	Maintain eyewash fountain and safety shower in work area.
<b>Advice to Doctor</b>	Treat symptomatically based on judgement of doctor and individual reactions of the patient.
<b>Other Information</b>	For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor at once.

**5. Fire-fighting measures**

<b>Hazards from Combustion Products</b>	Oxides of carbon and nitrogen.
<b>Specific Methods</b>	Small fire: Use dry chemical, CO2, water spray or foam. Large fire: Use water spray, fog or foam.
<b>Specific hazards arising from the chemical</b>	May burn but do not ignite readily.
<b>Precautions in connection with Fire</b>	Wear SCBA and structural firefighter's uniform.

**6. Accidental release measures**

<b>Personal Precautions</b>	Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.
<b>Personal Protection</b>	Wear protective clothing specified for normal operations (see Section 8)
<b>Clean-up Methods - Small Spillages</b>	Sweep up (avoid generating dust) and remove to a suitable, clearly labelled container for disposal in accordance with local regulations.
<b>Environmental Precautions</b>	Prevent from spreading or entering into drains, ditches or rivers by using sand, earth, or other appropriate barriers.

**7. Handling and storage**

<b>Precautions for Safe Handling</b>	Avoid substance contact and inhalation of dust.
<b>Conditions for safe storage, including any incompatibilities</b>	Store away from oxidizing agents. Keep container tightly closed and dry
<b>Unsuitable Materials</b>	Copper Copper alloys Nickel

**8. Exposure controls/personal protection**

<b>Other Exposure Information</b>	No exposure standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts/mists not otherwise specified is 10 mg/m3. All atmospheric contamination should be kept to as low a level as is workable. These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace
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	exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.
<b>Appropriate engineering controls</b>	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>	Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments. Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste.
<b>Personal Protective Equipment</b>	Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.
<b>Footwear</b>	Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.
<b>Body Protection</b>	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.
<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 powder or colourless crystals.
<b>Odour</b>	Odourless.
<b>Melting Point</b>	240 - 250 °C
<b>Solubility in Water</b>	Slightly soluble (0.2 g/L @ 20 °C, 3 g/L @ 80 °C)
<b>Specific Gravity</b>	0.86
<b>pH</b>	~2.5 (10 g/l, H <sub>2</sub> O, 23 °C) (slurry).
<b>Vapour Pressure</b>	<0.0001 kPa (25 °C)
<b>Partition Coefficient: n-octanol/water</b>	log P(o/w): -3.34
<b>Flash Point</b>	>100 °C
<b>Flammability</b>	Combustible.
<b>Auto-Ignition Temperature</b>	>200 °C
<b>Molecular Weight</b>	292.25



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**10. Stability and reactivity**

<b>Chemical Stability</b>	Stable.
<b>Conditions to Avoid</b>	Heating. Dust formation. Incompatibles.
<b>Incompatible Materials</b>	Strong oxidisers and amines. Metals and copper.
<b>Hazardous Decomposition Products</b>	Oxides of carbon and nitrogen.
<b>Hazardous Polymerization</b>	Will not occur.

**11. Toxicological Information**

<b>Acute Toxicity - Oral</b>	LD50 Oral (rat): 4,500 mg/kg - OECD Test Guideline 401
<b>Ingestion</b>	May cause gastric pain.
<b>Inhalation</b>	May be slightly irritating to respiratory system. May cause coughing and dyspnoea.
<b>Skin</b>	May cause irritation.
<b>Eye</b>	Causes serious eye irritation.
<b>Respiratory sensitisation</b>	Not classified based on available information.
<b>Skin Sensitisation</b>	Not classified based on available information.
<b>Germ cell mutagenicity</b>	Not classified based on available information.
<b>Carcinogenicity</b>	Not classified based on available information.
<b>Reproductive Toxicity</b>	Not classified based on available information.
<b>STOT-single exposure</b>	Not classified based on available information.
<b>STOT-repeated exposure</b>	Not classified based on available information.
<b>Mutagenicity</b>	Not classified based on available information.

**12. Ecological information**

<b>Persistence and degradability</b>	Abiotic degradation: rapid degradation (air). Biologic degradation: Slightly biodegradable. Slightly eliminable (DOC reduction <20%). BOD5: 0.01 mg/kg. BOD <1% from TOD/5d. Biodegradation: 0%/28 d. COD: 0.85 mg/mg, COD <20% from TOD/28 d.
<b>Bioaccumulative Potential</b>	Behaviour in environmental compartments.: Distribution: log P(o/w): -3.34. No bioaccumulation is to be expected (log P(o/w)<1). Bioconcentration factor (BCF): 1.8
<b>Environmental Protection</b>	Do not allow to enter waters, waste water, or soil!
<b>Acute Toxicity - Fish</b>	L. macrochirus CL50 : 34-62 mg/l/96 h.
<b>Acute Toxicity - Daphnia</b>	EC50 (Daphnia magna): 625 mg/l/24 h.

**13. Disposal considerations**



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<b>Disposal Considerations</b>	Whatever cannot be saved for recovery or recycling should be disposed 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>Regulatory Information</b>	All of the significant ingredients in this formulation are compliant with Australian Industrial Chemicals Introduction Scheme (AICIS) regulations. Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
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<b>Poisons Schedule</b>	Not Scheduled
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**16. Other Information**

<b>Literature References</b>	'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'. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand. Safe Work Australia, 'Hazardous Chemical Information System'. Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances'. Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment'.
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<b>Contact Person/Point</b>	Paul McCarthy Ph. (08) 8440 2000 <b>DISCLAIMER STATEMENT:</b> 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.
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<b>Empirical Formula &amp; Structural Formula</b>	C10 H16 N2 O8
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