



SAFETY DATA SHEET

PRODUCT NAME: EDTA – Tetrasodium Salt

Issue Date: May 23

IDENTIFICATION

Product Name: EDTA – Tetrasodium Salt
Other Names: Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, tetrasodium salt, tetrahydrate
Product Code: ZEDTA
Uses: Manufacture of cosmetic products, cleaning and maintenance products, chelating agent
Supplier: HamChem Hamilton Chemicals Ltd, 75 Ruffell Rd, Hamilton
Phone: 07 974 4971 Web: www.hamchem.nz Email: info@hamchem.nz

- In emergency dial 111, and then ask for Fire, Ambulance or Police as necessary.
- In case of poisoning phone National Poisons Centre – 0800 764 766

HAZARD IDENTIFICATION



GHS Classifications

Acute Toxicity (Oral) – Category 4
Eye Irritation – Category 2

Signal Word: Warning

Hazard Statements

H302 – Harmful if swallowed
H319 – Causes serious eye irritation

Prevention

P264 – Wash hands thoroughly after handling
P270 – Do not eat, drink or smoke when using this product
P280 – Wear eye/face protection

Response

P301 + P312 – IF SWALLOWED: Call a POISON CENTRE or Doctor if you feel unwell
P330 – Rinse mouth
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

Disposal

P501 Dispose of contents/container to an approved waste facility in accordance with local regulations

COMPOSITION & INFORMATION ON INGREDIENTS

Chemical Entity	CAS No.	Proportion (%)
EDTA Tetrasodium salt	13235-36-4	>95

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FIRST AID MEASURES

Skin Contact: If skin contact occurs, remove contaminated clothing and wash skin with running water. If irritation occurs seek medical advice.

Eye Contact: If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.
Immediately seek medical attention – causes serious eye damage.

Ingestion: Rinse mouth with water. If swallowed, give a glass of water to drink. If vomiting occurs give further water. Seek medical assistance.

Inhalation: Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Advice to Doctor: Treat symptomatically.

FIRE FIGHTING MEASURES

General Measures: If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out.

Flammability Conditions: Combustible solid; may burn, but does not ignite readily.

Extinguishing Media: Use dry chemical, carbon dioxide, regular foam or water spray for extinction.

Fire and Explosion Hazard: Dust may form explosive mixtures with air.

Hazardous Products of Combustion: Fire may produce irritating and/or toxic fumes, including Ammonia, Carbon Oxides and Nitrogen Oxides.

Special Fire Fighting Instructions: Contain runoff from fire control or dilution water – run off may pollute waterways.

Personal Protective Equipment: Wear self-contained breathing apparatus (SCBA) in combination with normal firefighting clothing (fire kit).

Auto Ignition Temperature: >200°C

ACCIDENTAL RELEASE MEASURES

General Response Procedure: Ensure adequate ventilation. Eliminate all ignition sources (no smoking, flares, sparks or flame). Do not touch or walk through spilled material. Avoid generation of dust. Avoid breathing dust and contact with eyes, skin and clothing.

Clean Up Procedures: Collect material (sweep up and shovel) and place it into suitable, labelled containers for later disposal. See Disposal Considerations section of this SDS.

Containment: Stop leak if safe to do so – prevent entry into waterways, drains or confined areas. Prevent dust cloud.

Environmental Precautionary Measures: Prevent entry into drains and waterways.

Evacuation Criteria: Spill or leak area should be isolated immediately. Keep unauthorized personnel away. Keep upwind.

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HANDLING & STORAGE

Handling: Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid generating dust. Avoid breathing dust and contact with skin, eyes and clothing. Use personal protective equipment as required – see Exposure Controls & Personal Protection section of this SDS. Keep away from heat and sources of ignition. No smoking.

Storage: Store in a cool, dry and well-ventilated place. Keep container tightly closed. Keep away from heat and sources of ignition. No smoking. Keep away from incompatible materials (strong oxidizing agents).

Container: Keep in the original container.

EXPOSURE CONTROLS & PERSONAL PROTECTION

Occupational Exposure Limits: No value assigned for this specific material by the New Zealand Occupational Safety and Health Service (OSH). However, Workplace Exposure Standard(s) for particulates:

Particulates not otherwise classified: 8hr WES-TWA = 10 mg/m³ (inspirable dust) or 3 mg/m³ (respirable dust).

Biological Limits: Derived no-effect levels (DNELs): Worker, inhalative, short-term, systemic effects: 2.5mg/m³. Work, inhalative, short-term, local effects: 2.5 mg/m³. Predicted no-effect concentrations (PNECs): Freshwater: 2.2mg/L, Sea water: 0.22mg/L, Soil: 0.72mg/L, STP: 43mg/L

Engineering Measures: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment: Wear overalls, chemical goggles and impervious gloves. Avoid generating and inhaling dusts. If dust exists, wear dust mask/respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

PHYSICAL & CHEMICAL PROPERTIES

Physical state:	Powder
Colour:	White
Odour:	Product specific
Specific Gravity:	1.07 @20°C
Relative Vapour Density (air=1):	Not applicable
Vapour Pressure (20 °C):	Not applicable
Flash Point (°C):	Not applicable
Flammability Limits (%):	Not applicable
Autoignition Temperature (°C):	>200
Solubility in water (g/L):	ca. 580 g/L @20°C
Melting Point/Range (°C):	ca. 400
Decomposition Point (°C):	ca. 400
pH:	ca. 10.5-12.5 (10 g/L, 23°C)

STABILITY & REACTIVITY

Chemical stability: Stable under recommended storage conditions.

Conditions to avoid: Avoid dust formation. Keep away from heat and sources of ignition. No smoking.

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Incompatible materials: Incompatible with oxidising agents, aluminium, copper, copper alloys, nickel, sodium hypochlorite, and materials containing sodium hypochlorite.

Hazardous decomposition products: No hazardous decomposition products if stored and handled correctly. Fire may produce irritating and/or toxic fumes, including ammonia, carbon oxides, nitrogen oxides.

Hazardous Polymerization: Will not occur.

TOXICOLOGICAL INFORMATION

Acute Toxicity: Harmful if swallowed and if inhaled.

Skin Corrosion/Irritation: Non-irritating to the skin.

Eye Damage/Irritation: Causes serious eye damage.

Respiratory/Skin Sensitization: No sensitization responses were observed.

Mutagenicity: No data available

Carcinogenicity: No data available

Reproductive Toxicity: No data available.

Ingestion: Acute toxicity (Oral) LD50, Rat (male/female) >1,780 - <2,000 mg/kg bw

Inhalation: Acute toxicity (Inhalation) LOAEC (male) ca. 30mg/m³ air [based on active ingredient Na₂H₂EDTA]

ECOLOGICAL INFORMATION

Ecotoxicity: LC50, Fish (*Lepomis macrochirus*) 41 mg/L (96h). EC50, Crustacea (*Daphnia magna*) 610 mg/L (24h). EC50, Algae/aquatic plants (*Desmodesmus subspicatus*) 2.77 mg/L (72h).

Persistence/Degradability: No information available

Mobility: No information available

Environmental Fate: This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). Prevent entry into drains and waterways.

Bioaccumulation Potential: Material does not bioaccumulate.

Environmental Impact: No data available.

DISPOSAL CONSIDERATIONS

General Information: Dispose of wastes from residues/unused product in accordance with local, regional, national and international regulations.

Special Precautions for Land Fill: Contaminated packaging: Empty containers should be taken for local recycling, recovery or waste disposal.

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TRANSPORT INFORMATION

Not classified as a Dangerous Good under NZS 5433 Transport of Dangerous Goods on Land.

REGULATORY INFORMATION

HSNO Classifications: 6.1D, 6.4A

EPA Approval #: HSR002503 – Additives, Process Chemicals & Raw Materials (Subsidiary Hazard) Group Standard 2020

OTHER INFORMATION

End of SDS.