



# PRICE CHEMICALS PTY LIMITED

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## MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATION

**Revision Date** JULY 2011

**Product Name** EDTA DISODIUM SALT

**Other Names** Disodium EDTA, dihydrate; Edetate disodium; Ethylene diamine tetraacetic acid, disodium salt.

**Uses** Detergents, liquid soaps, shampoos, agricultural chemical sprays, metal cleaning and plating, metal chelating agent, treatment of chlorosis, decontamination of radio active surfaces, metal deactivator in vegetable oils, oils emulsions and pharmaceutical products, anticoagulant of blood, eluting agent in iron 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.

#### Contact Information

Organisation	Location	Telephone	Ask For
Price Chemicals Pty Ltd	10 Pile Rd Somersby NSW 2250 Australia	+61 2 97333000	Technical Officer
Poison Information Centre	Westmead NSW Australia	131126	
Chemcall 24 Hour Emergency Number	Australia New Zealand	1800-127406 0800-243622	
National Poisons Centre	New Zealand	0800-764766	

### 2. HAZARD IDENTIFICATION

Hazardous according to criteria of NOHSC/ASCC.

HARMFUL IRRITANT

#### Risk Phrases

R22 Harmful if swallowed.

R36/37/38 Irritating to eyes, respiratory system and skin.

#### Safety Phrases

In case of contact with eyes, rinse immediately with plenty of water and  
S26 seek medical advice.

S36 Wear suitable protective clothing.

ERMA New Zealand Approval Code HSR003376

HSNO Hazard Classification 6.1D 6.3B 6.4A

This Material Safety Data Sheet may not provide exhaustive guidance for all HSNO Controls assigned to this substance. The [ERMA Web Site](#) should be consulted for a full list of triggered controls and cited regulations.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Ingredients

Chemical Entity	CAS Number	Proportions (%)
EDTA DISODIUM SALT	[6381-92-6]	> 99.0

### 4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure.

**Swallowed** Rinse mouth with water. Give water to drink. Do NOT induce vomiting. If symptoms develop, seek medical attention.

**Eye** Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. If irritation persists, seek medical attention.

**Skin** Remove contaminated clothing. Flush affected area with plenty of water. If irritation persists, seek medical attention.

**Inhaled** Remove victim from exposure to fresh air. If not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

**Advice to Doctor** Treat symptomatically based on individual reactions of patient and judgement of doctor. NOTE: For advice in an emergency, contact a Poisons Information Centre (Australia 13-11-26 or New Zealand 0800-764-766).

**Aggravated medical conditions caused by exposure** No information available on medical conditions which are aggravated from exposure to this product.

### 5. FIRE FIGHTING MEASURES

**Extinguishing Media** In case of fire, appropriate extinguishing media include water spray, dry chemical, carbon dioxide or foam.

**Hazards from Combustion Products** Combustible solid. Avoid generating dust. Fine dust clouds may form explosive mixtures with air. Incompatible with oxidizing agents, alkalis, aluminium, nickel, zinc, copper, copper alloys, and sources of ignition. When involved in a fire, this product may generate Nitrogen oxides, Carbon oxides, irritating, poisonous and/or corrosive gasses, ammonia and/or its derivatives. Contact with metals may evolve flammable hydrogen gas. Avoid temperatures above 150°C, this product releases water of crystallisation when heated.

**Special Protective Precautions and Equipment for Fire Fighters** Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves). Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources.

**Flammability Conditions** Product is a combustible solid.

Additional Information  
Hazchem Code N/A

## 6. ACCIDENTAL RELEASE MEASURES

**Emergency Procedures** Personnel involved in the clean up should wear full protective clothing. Eliminate all sources of ignition. Do not touch or walk through this product. Stop leak if safe to do so. Increase ventilation. Avoid generating dust. Do not allow product to reach drains, sewers or waterways. If the product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management. Use clean, non-sparking tools and equipment.

**Methods and Materials for Containment and Clean Up** Contain and sweep/shovel up spills with dust binding material or use an industrial vacuum cleaner. Transfer to suitable, labelled, sealable chemical- waste containers and dispose of promptly as hazardous waste.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling** Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin and clothing. Do not inhale product dust/fumes.

**Conditions for Safe Storage (Including Any Incompatibles)** Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Store at temperatures ranging from no more than 15-25°C ( room temperature ). Protect against physical damage. Store away from incompatible materials including strong oxidizing agents, alkalis, aluminium, nickel, zinc, copper, copper alloys, and sources of ignition. Protect from direct sunlight, moisture, strong heating, and lighting. This product is not classified dangerous for transport according to The Australian Code for the Transport of Dangerous Goods By Road and Rail.

**Container Type** Packaging must comply with requirements of Hazardous Substances (Packaging) Regulations 2001. Store in original packaging as approved by manufacturer. Suitable: Complex bag with plastic inner liner.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**National Exposure Standards** No exposure standard has been established for this product by the Australian Safety and Compensation Council (ASCC). However, the exposure standard for dust not otherwise specified is 10mg/m<sup>3</sup> (for inspirable dust) and 3mg/m<sup>3</sup> (for respirable dust).

**Biological Limit Values** No information available on biological limit values for this product.

**Engineering Controls** 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.

**Personal Protection** RESPIRATOR: Wear an effective dust mask where dusts are generated and engineering controls are inadequate (AS1715/1716). EYES: Safety glasses with side shields (AS1336/1337). HANDS: Nitrile rubber gloves are recommended (AS2161). CLOTHING: Long-sleeved coveralls and safety footwear (AS3765/2210).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** White Crystalline powder

**Formula** C<sub>10</sub>H<sub>16</sub>N<sub>2</sub>O<sub>8</sub>.2H<sub>2</sub>O.2Na

**Odour** Odourless

**Vapour Pressure** Not applicable.

**Vapour Density** Not applicable.

**Boiling Point** Not applicable.

**Melting Point** 252 deg C

**Solubility in Water** 100g/L

**Specific Gravity** Not applicable.

**Flash Point** Test Unknown 252

**Ph** 4 - 5 (5% (20'C))

**Lower Explosion Limit** Not applicable.

**Upper Explosion Limit** Not applicable.

**Materials** Not applicable.

**Materials That May Initiate or Contribute to Fire Intensity** Not applicable.

**Potential for Dust Explosion** Potential for dust explosion in sufficient quantity/reduced particle size.

**Reactions that Release Flammable Gases** Contact with incompatible metals may evolve flammable hydrogen gas.

**Fast of Intensely Burning Characteristics** Not applicable.

**Non-flammables That Could Contribute Unusual Hazards to a Fire** Not applicable.

**Release of Invisible Flammable Vapours and Gases** Not applicable.

**Decomposition Temperature** 252'C

**Additional Information** Molecular Weight: 372.24 Product has characteristics of a weak acid, displacing CO<sub>2</sub> from carbonates and reacting with metals to form hydrogen.

## 10. STABILITY AND REACTIVITY

**Chemical Stability** Product is stable under normal conditions of use, storage and temperature.

**Conditions to Avoid** Avoid excessive heat, direct sunlight, lightning, generating dust, moisture, static discharges and high temperatures.

**Incompatible Materials** Incompatible with oxidizing agents, alkalis, aluminium, nickel, zinc, copper, copper alloys, and sources of ignition.

**Hazardous Decomposition Products** When heated to decomposition, this product may generate Nitrogen oxides, Carbon oxides, irritating, poisonous and/or corrosive gasses, ammonia and/or its derivatives. Contact with metals may evolve flammable hydrogen gas.

**Hazardous Reactions** Hazardous Polymerization will not occur.

## 11. TOXICOLOGICAL INFORMATION

**Toxicity Data** Oral LD50 Rat : 2000mg/Kg (Anhydrous substance) Oral TDLo Rat : 13000mg/Kg/( 6-14 days pregnant ) - Toxic Effect – Teratogenic Health Effects - Acute

**Swallowed** Harmful if swallowed. Ingestion of large amounts may cause damage to the kidneys. Slow absorption. Disturbed electrolyte balance.

**Eye** Eye contact may result in transient irritation.

**Skin** Causes irritation when in contact with skin.

**Inhaled** Inhalation may result in slight respiratory irritation.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** L.macrochirus CL50/96hr: 159mg/L (Anhydrous substance) P.reticulata LC50/96hr : 320mg/L (Anhydrous substance) Ps.putida EC50/8hr : 56mg/L (Anhydrous substance)

**Persistence and Degardability** Biodegradation: 3%/30days (Calculated on the free acid)(closed bottle test) Biologically not readily degradable. Slightly eliminable (DOC reduction <20%)

**Mobility** Soluble in water

**Environmental Fate (Exposure)** Do NOT allow product to reach drains, waterways, and sewers.

**Bioaccumulative Potential** No information available on bioaccumulation for this product.

## 13. DISPOSAL CONSIDERATIONS

**Disposal** Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State and Federal Regulations or recycled/reconditioned at an approved facility.

**Special Precautions for Land Fill or Incineration** Contact a specialist disposal company or the local waste regulator for advice.

## 14. TRANSPORT INFORMATION

Land Transport (Australia)

**Regulation Name** ADG Code

**UN Number** Not applicable.

**Shipping Name** EDTA DISODIUM SALT

**Dangerous Goods Class** Not applicable.

**Subsidiary Risk** Not applicable.

**Pack Group** Not applicable.

**Precaution for User** HARMFUL IRRITANT

**Hazchem Code** N/A

**EPG** Not applicable.

**Special Provision** Not applicable.

Land Transport (New Zealand)

**Regulation Name** NZS5433

**UN Number** Not applicable.

**Shipping Name** EDTA DISODIUM SALT

**Dangerous Goods Class** Not applicable.

**Subsidiary Risk** Not applicable.

**Pack Group** Not applicable.

**Precaution for User** HARMFUL IRRITANT

**Hazchem Code** N/A

**EPG** Not applicable.

**Special Provision** Not applicable.

Sea Transport

**Regulation Name** IMDG Code

**UN Number** No data available.

**Shipping Name** No data available.

**Dangerous Goods Class** No data available.

**Subsidiary Risk** No data available.

**Pack Group** No data available.

**Precaution for User** HARMFUL IRRITANT

**Hazchem Code** No data available.

**EPG** No data available.

**Special Provision** Not applicable.

## 15. REGULATORY INFORMATION

This product is not included in the dangerous substances index with its corresponding EC index number, so it has been classified according to the Annex VI of the 2001/59/EC Directive. EINECS No: 205-358-3 Disodium EDTA, dihydrate

**Poisons Schedule** N/A

**EPG** N/A

**AICS Name** GLYCINE, N,N'-1,2-ETHANEDIYLBIS[N-(CARBOXYMETHYL)-, DISODIUM SALT, DIHYDRATE

**NZ Toxic Substance** No data available.

**HSNO Hazard Classification** 6.1D 6.3B 6.4A

**ERMA Approval Code** HSR003376

## 16. OTHER INFORMATION

**Literature References** No data available.

**Sources for Data** No data available.

Legend to Abbreviations and Acronyms

< less than

> greater than

**ADG** Australian Dangerous Goods Code

**AICS** Australian Inventory of Chemical Substances

**CAS** Chemical Abstracts Service (Registry Number)

**cm<sup>2</sup>** square centimetres

**CO<sub>2</sub>** Carbon Dioxide

**COD** Chemical Oxygen Demand

**deg C ( °C )** degrees Celsius

**ERMA** Environmental Risk Management Authority

**g** gram

**g/cm<sup>3</sup>** grams per cubic centimetre

**g/l** grams per litre

**HSNO** Hazardous Substance and New Organism

group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.

death of 50% (one half) of a group of test animals

**mg** milligram

**mg/24H** milligrams per 24 hours

**mg/kg** milligrams per kilogram

**mg/m<sup>3</sup>** milligrams per cubic metre

**Misc** miscible

**miscible** liquids form one homogeneous liquid phase regardless of the amount of either component present

**mm** millimetre

**mPa.s** milli Pascal per second

**N/A** Not Applicable

**NOHSC** National Occupational Health and Safety Commission

**OECD** Organization for Economic Co-operation and Development

**PEL** Permissible Exposure Limit

**ppb** parts per billion

This MSDS summarises Price Chemicals Pty Ltd best knowledge of the health and safety hazard information of the selected substance and how to safely handle the selected substance in the workplace however Price Chemicals Pty Ltd expressly disclaims that the MSDS is a representation or guarantee of the chemical specifications for the substance.

Each user should read the MSDS and consider the information in the context of how the selected substance will be handled and used in the workplace including its use in conjunction with other substances.

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