

#### 1. IDENTIFICATION

Product Name Chelated Zinc EDTA

Other Names Chelated Zinc EDTA 14% Powder; EDTA, disodium zinc salt; EDTA-ZnNa2; Ethylenediaminetetraacetic acid, zinc disodium

complex; Sodium zinc ethylenediaminetetraacetate

Uses Soil nutrient, chelating agent. Used in agriculture and horticulture as micronutrient.

Chemical FamilyNo Data AvailableChemical FormulaC10H12N2O8Zn.2NaChemical NameZinc disodium EDTAProduct DescriptionNo Data Available

Contact Details of the Supplier of this Safety Data Sheet

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## **Emergency Contact Details**

For emergencies only; DO NOT contact these companies for general product advice.

Organisation Location Telephone Poisons Information Centre Westmead NSW 1800-251525 131126 Chemcall Australia 1800-127406 +64-4-9179888 Chemcall Malaysia +64-4-9179888 Chemcall New Zealand 0800-243622 +64-4-9179888 **National Poisons Centre** New Zealand 0800-764766

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## 2. HAZARD IDENTIFICATION

Poisons Schedule (Aust) Not Scheduled





## **Globally Harmonised System**

Hazard Classification NOT hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of

Chemicals (GHS)

Signal Word None

## **National Transport Commission (Australia)**

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods

by Road & Rail (ADG Code)

#### Safe Work Australia

National Guide for Classifying Hazardous Chemicals under the Model WHS Regulations

Hazard Classification NOT hazardous according to the criteria of Safe Work Australia under Model WHS Regulations

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

## Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Zinc disodium EDTA	C10H12N2O8Zn.2Na	14025-21-9	>=96 - 100 %

## **4. FIRST AID MEASURES**

## Description of necessary measures according to routes of exposure

**Swallowed** IF SWALLOWED: Rinse mouth, then drink several glasses of water. Do not induce vomiting. Get medical advice/attention.

Eye IF IN EYES: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting

the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. If eye

irritation persists, get medical advice/attention.

Skin IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation

occurs, get medical advice/attention.

Inhaled IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing until recovered. If

respiratory symptoms persist, get medical advice/attention.

Advice to Doctor Treat symptomatically.

Medical Conditions Aggravated by No information available.

Exposure

## **5. 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 Non-combustible; Does not burn.

If this product is involved in a fire, use dry chemical, Carbon dioxide (CO2), foam or water spray for extinction. Use **Extinguishing Media** 

extinguishing media suited to burning materials.

Fire and Explosion Hazard There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.

**Hazardous Products of** 

**Special Fire Fighting Instructions** 

Combustion

Fire or heat may produce irritating and/or toxic fumes, including Nitrous gases.

Contain runoff from fire control or dilution water - Runoff may pollute waterways. **Personal Protective Equipment** Wear self-contained breathing apparatus (SCBA) and chemical splash suit. SCBA and structural firefighter's uniform may

provide limited protection.

Flash Point No Data Available No Data Available **Lower Explosion Limit Upper Explosion Limit** No Data Available

315 °C **Auto Ignition Temperature** 

**Hazchem Code** No Data Available

## **6. ACCIDENTAL RELEASE MEASURES**

**General Response Procedure** Ensure adequate ventilation. ELIMINATE all ignition sources (if dust clouds can occur). Do not touch or walk through

spilled material. Avoid generating dust. Avoid breathing dust and contact with eyes, skin and clothing.

Mechanically recover the product. Collect as much as possible in a clean container for reuse (preferable) or disposal (see **Clean Up Procedures** 

SECTION 13).

\*This product can usually be used for its intended purpose unless contaminated by substances that make it unsuited.

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

Decontamination Flush remainder with water.

**Environmental Precautionary** 

Measures

Prevent spillage from entering drains or watercourses.

**Evacuation Criteria** Spill or leak area should be isolated immediately. Keep unauthorised personnel away.

Personal Precautionary Measures Use personal protective equipment as required (see SECTION 8).

## 7. HANDLING AND 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. Minimise dust generation and accumulation. Avoid breathing dust and contact with eyes, skin and clothing. Do not ingest. Use personal protective

equipment as required (see SECTION 8).

Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep container tightly closed. Product is hygroscopic Storage

- Protect from water/moisture. Avoid extreme temperatures and sources of ignition - No smoking. Keep away from

food/feedstuffs and incompatible materials (see SECTION 10).

Container Keep in the original container. Ensure containers are labelled, protected from physical damage and sealed when not in

use.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General No specific exposure standards are available for this product. For dusts from solid substances without specific

occupational exposure standards:

- Safe Work Australia Exposure Standard (Nuisance dusts): 8 hr TWA = 10 mg/m3 (measured as inhalable dust).

- New Zealand WES (Particulates not otherwise classified): TWA = 10 mg/m3; TWA = 3 mg/m3 (respirable dust).

**Exposure Limits** No Data Available

**Biological Limits** No information available.

**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.

Personal Protection Equipment - Respiratory protection: In case of inadequate ventilation, wear respiratory protection. Recommended: Use P2 type

canister respirator where high concentrations of airborne dust is present (refer to AS/NZS 1715 & 1716).

- Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Protective glasses or

goggles.

- Hand protection: Handle with gloves. Recommended: Wear gloves or gauntlets.

- Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Wear long

leeves

**Special Hazards Precaustions** No information available.

Work Hygienic Practices Do not eat, drink or smoke when using this product. Always wash hands before smoking, eating, drinking or using the

toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Routine housekeeping

should be instituted to ensure that dusts do not accumulate on surfaces.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid

Appearance Powder or microgranular

Odour Odourless or slight

**Colour** White

**pH** 6.0 - 7.0 (10 g/L @ 25 °C)

Vapour PressureNo Data AvailableRelative Vapour DensityNo Data AvailableBoiling PointNo Data Available

Melting Point Decomposes without melting

Freezing Point No Data Available
Solubility Soluble in water

Specific Gravity 1.72

Flash Point No Data Available

**Auto Ignition Temp** 315 °C

Evaporation Rate

No Data Available

Bulk Density

No Data Available

Corrosion Rate

No Data Available

**Decomposition Temperature** >200 °C

Density No Data Available **Specific Heat** No Data Available **Molecular Weight** No Data Available **Net Propellant Weight** No Data Available **Octanol Water Coefficient** No Data Available **Particle Size** No Data Available **Partition Coefficient** No Data Available **Saturated Vapour Concentration** No Data Available **Vapour Temperature** No Data Available Viscosity No Data Available Volatile Percent No Data Available **VOC Volume** No Data Available

**Additional Characteristics** No information available. **Potential for Dust Explosion** No information available.

**Fast or Intensely Burning** Characteristics

No information available.

Flame Propagation or Burning **Rate of Solid Materials** 

No information available.

**Non-Flammables That Could** Contribute Unusual Hazards to a No information available.

Fire **Properties That May Initiate or** 

Non-combustible; Does not burn.

**Contribute to Fire Intensity** Reactions That Release Gases or

**Vapours** 

Fire or heat may produce irritating and/or toxic fumes, including Nitrous gases.

Release of Invisible Flammable

No information available.

Vapours and Gases

#### 10. STABILITY AND REACTIVITY

**General Information** This product is unlikely to react or decompose under normal storage conditions.

**Chemical Stability** Stable under recommended storage and handling conditions.

**Conditions to Avoid** Avoid generating dust. Avoid extreme temperatures and sources of ignition. Protect from moisture/humidity.

**Materials to Avoid** Incompatible/reactive with strong oxidising agents, strong acids, strong bases; Aluminium.

**Hazardous Decomposition** 

**Products** 

Fire or heat may produce irritating and/or toxic fumes, including Nitrous gases.

**Hazardous Polymerisation** 

This product is unlikely to undergo polymerisation processes.

## 11. TOXICOLOGICAL INFORMATION

**General Information** Information on possible routes of exposure:

- Ingestion: Swallowing can result in nausea, vomiting, diarrhoea and gastrointestinal irritation.

- Eye contact: May irritate eyes.

- Skin contact: Contact with skin may result in irritation.

- Inhalation: Dust may be irritating to the respiratory tract and cause symptoms of bronchitis. Chronic effects: No significant ingredient is classified as carcinogenic by IARC/NTP/SWA.

**Carcinogen Category** None

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Persistence/Degradability Not readily biodegradable (from structurally related products).

- Biodegradation in water: Inherently biodegradable.

Mobility No information available.

**Environmental Fate** Prevent entry into drains and waterways.

**Bioaccumulation Potential** No bioaccumulation potential.

**Environmental Impact** No Data Available

#### 13. DISPOSAL CONSIDERATIONS

**General Information** This product can usually be used for its intended purpose unless contaminated by substances that make it unsuited.

Dispose of small quantities and empty containers by wrapping with paper and putting in garbage. For larger quantities, if

recycling or reclaiming is not possible, use a commercial waste disposal service.

Special Precautions for Land Fill No information available.

#### 14. TRANSPORT INFORMATION

## Land Transport (Australia)

ADG Code

Proper Shipping Name
Class
No Data Available
Subsidiary Risk(s)
No Data Available
No Data Available
UN Number
No Data Available

Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

# Land Transport (Malaysia)

ADR Code

Proper Shipping Name
Class
No Data Available
Subsidiary Risk(s)
No Data Available
No Data Available
No Data Available
No Data Available

Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available

**Comments** NON-DANGEROUS GOODS: Not regulated for LAND transport.

## Land Transport (New Zealand)

NZS5433

Proper Shipping Name
Class
No Data Available
Subsidiary Risk(s)
No Data Available
No Data Available

UN Number No Data Available
Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available

**Comments** NON-DANGEROUS GOODS: Not regulated for LAND transport.

## **Land Transport (United States of America)**

**US DOT** 

Proper Shipping Name Chelated Zinc EDTA
Class No Data Available
Subsidiary Risk(s) No Data Available

No Data Available

UN Number No Data Available
Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available

**Comments** NON-DANGEROUS GOODS: Not regulated for LAND transport.

## **Sea Transport**

**IMDG** Code

**Proper Shipping Name** Chelated Zinc EDTA Class No Data Available Subsidiary Risk(s) No Data Available **UN Number** No Data Available Hazchem No Data Available No Data Available **Pack Group Special Provision** No Data Available **EMS** No Data Available

Marine Pollutant No

**Comments** NON-DANGEROUS GOODS: Not regulated for SEA transport.

# Air Transport

IATA DGR

Proper Shipping Name
Chelated Zinc EDTA
Class
No Data Available
Subsidiary Risk(s)
No Data Available
UN Number
No Data Available
Hazchem
No Data Available
Pack Group
No Data Available
Special Provision
No Data Available

Comments NON-DANGEROUS GOODS: Not regulated for AIR transport.

## **National Transport Commission (Australia)**

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

**Dangerous Goods Classification** NOT Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods

by Road & Rail (ADG Code)

# **15. REGULATORY INFORMATION**

General Information No Data Available

Poisons Schedule (Aust)

Not Scheduled

## **Environmental Protection Authority (New Zealand)**

Hazardous Substances and New Organisms Amendment Act 2015

Approval Code Not Hazardous

## **National/Regional Inventories**

Australia (AIIC) Listed

Canada (DSL) Not Determined

Canada (NDSL) Not Determined

China (IECSC) Not Determined

**Europe (EINECS)** 237-865-0

Europe (REACh) Not Determined

Japan (ENCS/METI) Not Determined

Korea (KECI) Not Determined

Malaysia (EHS Register) Not Determined

New Zealand (NZIoC) Listed

Philippines (PICCS) Not Determined

Switzerland (Giftliste 1) Not Determined

**Switzerland (Inventory of Notified** 

Substances)

Not Determined

Taiwan (NCSR) Not Determined

USA (TSCA) Listed

## **16. OTHER INFORMATION**

Related Product Codes CHELZN4000, CHELZN4100, CHELZN4101, CHELZN4100, CHELZN4200, CHELZN4300, CHELZN4400, CHELZN4500,

CHELZN4501, CHELZN4505, CHELZN4510, CHELZN4520, CHELZN9900

Revision 4

**AICS** Australian Inventory of Chemical Substances

atm Atmosphere

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

cm² Square CentimetresCO2 Carbon Dioxide

**COD** Chemical Oxygen Demand **deg C (°C)** Degrees Celcius

EPA (New Zealand) Environmental Protection Authority of New Zealand

deg F (°F) Degrees Farenheit

**g** Grams

g/cm3 Grams per Cubic Centimetre

g/I Grams per Litre

**HSNO** Hazardous Substance and New Organism

**IDLH** Immediately Dangerous to Life and Health

immiscible Liquids are insoluable in each other.

inHg Inch of Mercury

inH20 Inch of Water

K Kelvin

kg Kilogram

kg/m3 Kilograms per Cubic Metre

**Ib** Pound

**LC50** LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.

**LD50** LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.

Itr or L Litre

m<sup>3</sup> Cubic Metre

mbar Millibar

mg Milligram

mg/24H Milligrams per 24 Hours

mg/kg Milligrams per Kilogram

mg/m³ Milligrams per Cubic Metre

Misc or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component present.

mm Millimetre

mmH20 Millimetres of Water

mPa.s Millipascals per Second

N/A Not Applicable

**NIOSH** National Institute for Occupational Safety and Health

NOHSC National Occupational Heath and Safety Commission

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

Oz Ounce

**PEL** Permissible Exposure Limit

Pa Pascal

ppb Parts per Billion

ppm Parts per Million

ppm/2h Parts per Million per 2 Hours

ppm/6h Parts per Million per 6 Hours

psi Pounds per Square Inch

**R** Rankine

**RCP** Reciprocal Calculation Procedure

**STEL** Short Term Exposure Limit

TLV Threshold Limit Value

tne Tonne

**TWA** Time Weighted Average

ug/24H Micrograms per 24 Hours

**UN** United Nations

wt Weight