

1. IDENTIFICATION

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Product Name Ferric Sodium EDTA

Other Names Chelated Iron-EDTA 13%; EDTA 13% Fe; EDTA-Fe-13; EDTA-FeNa; Ethylenediaminetetraacetic acid, iron(III) monosodium

salt; Sodium feredetate; Sodium ferric ethylenediaminetetraacetate; Sodium iron (III) EDTA; Sodium iron

Talambana

ethylenediaminetetraacetic acid

Uses Industrial use; Complexing agent.

Chemical Family No Data Available **Chemical Formula** C10H12FeN2O8.Na

Chemical Name Ferric sodium ethylenediaminetetraacetate

Product Description Iron chelate: 13%

Contact Details of the Supplier of this Safety Data Sheet

Organisation	Location	reiephone
Redox Ltd	2 Swettenham Road	+61-2-97333000
	Minto NSW 2566	
	Australia	

Redox Ltd 11 Mayo Road +64-9-2506222

Wiri Auckland 2104 New Zealand

Redox Inc. 3960 Paramount Boulevard +1-424-675-3200

Suite 107

Lakewood CA 90712

USA

Redox Chemicals Sdn Bhd Level 2, No. 8, Jalan Sapir 33/7 +60-3-5614-2111

Seksyen 33, Shah Alam Premier Industrial Park

40400 Shah Alam Sengalor, Malaysia

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
CHEMTREC	USA & Canada	1-800-424-9300 CN723420 +1-703-527-3887

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 ClassificationNOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods

by Road & Rail (ADG Code)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Ferric sodium EDTA	C10H12FeN2O8.Na	15708-41-5	>=98 %
Water	H2O	7732-18-5	<=2 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed IF SWALLOWED: Rinse mouth, then drink plenty of water. Get medical advice/attention. Never give anything by mouth to

an unconscious person.

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 it 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. 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 May burn but does not ignite readily.

Extinguishing Media Use dry chemical, Carbon dioxide (CO2), foam or water spray for extinction.

*Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Fire and Explosion Hazard Avoid generating dust; Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is

a potential dust explosion hazard.

Hazardous Products of

Combustion

Fire may produce irritating and/or toxic gases, including Carbon oxides, Nitrogen oxides.

Special Fire Fighting Instructions Contain runoff from fire control or dilution water - Runoff may cause pollution.

Personal Protective Equipment Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only

provide limited protection.

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

Auto Ignition Temperature 207 °C

Hazchem Code No Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure Ensure adequate ventilation, especially in confined areas. ELIMINATE all ignition sources. Do not touch or walk through

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

Clean Up Procedures Take up mechanically. Sweep up and shovel into suitable containers for disposal (see SECTION 13).

Containment Stop leak if you can do it without risk. Prevent dust cloud. Prevent entry into waterways, sewers, basements or confined

areas.

Decontamination Flush remainder with water.

Environmental Precautionary

Measures

Prevent entry into drains and waterways.

Evacuation Criteria Spill or leak area should be isolated immediately. Evacuate personnel to safe areas. 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, especially in confined areas. 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). Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding

and bonding, or inert atmospheres.

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

moisture/humidity. Keep away from heat and sources of ignition - No smoking. Keep away from food/feedstuffs and

incompatible materials (see SECTION 10).

Container Keep in the original container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General No specific exposure standards are available for this product. For Iron salts, soluble (as Fe):

- Safe Work Australia Exposure Standard: TWA = 1 mg/m3

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: Wear respiratory protection if exposure limits are exceeded or irritation is experienced. Recommended: Dust mask/particulate respirator. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations (refer to AS/NZS 1715 & 1716).
- Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Wear safety glasses with side shields (or goggles).
- Hand protection: Handle with gloves. Recommended: Wear protective gloves.
- Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Suitable

protective clothing.

Special Hazards Precaustions

No information available.

Work Hygienic Practices

Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Take off contaminated clothing and wash it before reuse. 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

OdourOdourlessColourYellow-greenpH3.8 - 6.0

Vapour PressureNo Data AvailableRelative Vapour DensityNo Data AvailableBoiling PointNo Data Available

Melting Point 80 °C

Freezing Point No Data Available

Solubility Moderate water solubility - 90 g/L @ 20°C; 300g/L @ 80°C

Specific Gravity No Data Available
Flash Point No Data Available

Auto Ignition Temp 207 °C

Evaporation RateNo Data AvailableBulk DensityNo Data AvailableCorrosion RateNo Data AvailableDecomposition TemperatureNo Data Available

Density 1.78 g/cm3

Specific Heat No Data Available **Molecular Weight** No Data Available **Net Propellant Weight** No Data Available **Octanol Water Coefficient** LogPow: -8.841 **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

Additional Characteristics Dissociation constant (pKa): 25.1 (25°C)

No Data Available

Potential for Dust Explosion Avoid generating dust; Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is

a potential dust explosion hazard.

VOC Volume

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.

D .: TI ...

Properties That May Initiate or Contribute to Fire Intensity

May burn but does not ignite readily.

Reactions That Release Gases or

Vapours

Fire/decomposition may produce irritating and/or toxic gases, including Carbon oxides, Nitrogen oxides.

Release of Invisible Flammable

Vapours and Gases

No information available.

10. STABILITY AND REACTIVITY

General Information No hazardous reaction when handled and stored according to provisions.

Chemical Stability Stable under normal conditions.

Conditions to Avoid Avoid generating dust. Keep away from heat and sources of ignition. Take precautionary measures against static

discharge.

Materials to Avoid Incompatible/reactive strong oxidising agents, strong acids, strong bases, aluminium.

Hazardous Decomposition

Products

Fire/decomposition may produce irritating and/or toxic gases, including Carbon oxides, Nitrogen oxides.

Hazardous Polymerisation No information available.

11. TOXICOLOGICAL INFORMATION

General Information - Acute toxicity: Not classified. Ingestion may cause irritation to mucous membranes.

- Skin corrosion/irritation: Non-irritating to the skin.

- Eye damage/irritation: No eye irritation.

- Respiratory/skin sensitisation: No sensitisation responses were observed.

Germ cell mutagenicity: No information available.
Carcinogenicity: No information available.
Reproductive toxicity: No information available.

- STOT (single exposure): No information available. Inhalation of vapours in high concentration may cause irritation of

respiratory system.

- STOT (repeated exposure): No information available.

- Aspiration toxicity: No information available.

Acute

Ingestion Acute toxicity (Oral):

- LD50, Rat: 5 g/kg [Supplier's SDS].

Other Acute toxicity (Dermal):

- LD50, Rat: >2,000 mg/kg bw. [Supplier's SDS].

Inhalation Acute toxicity (Inhalation):

- LC50, Rat: >2.75 mg/l (4 h) [Supplier's SDS].

Carcinogen Category None

12. ECOLOGICAL INFORMATION

Ecotoxicity Aquatic toxicity:

- Acute LC50, Fish: >100 mg/L (86 h) [OECD 203; Supplier's SDS].
 - Acute EC50, Daphnia: 100.9 mg/L (48 h) [OECD 202; Supplier's SDS].

Persistence/Degradability EDTA is not readily biodegradable according to OECD criteria, but ultimately biodegradable under special environmental

conditions [ECHA].

Mobility No information available.

Environmental Fate Do not allow into any sewer, on the ground or into any body of water.

Bioaccumulation Potential No information available.

Environmental Impact No Data Available

13. DISPOSAL CONSIDERATIONS

General InformationThis material and its container must be disposed of in a safe manner. Collect and reclaim waste from residues/unused

product(s) or dispose of in sealed containers at a licensed waste disposal site and in accordance with

local/regional/national regulations.

Special Precautions for Land Fill Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

Land Transport (Australia)

ADG Code

Proper Shipping Name

Class

No Data Available

Subsidiary Risk(s)

No Data Available

No Data Available

No Data Available

UN NumberNo Data AvailableHazchemNo Data AvailablePack GroupNo Data AvailableSpecial ProvisionNo Data Available

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

Land Transport (Malaysia)

ADR Code

Proper Shipping Name Ferric Sodium 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.

Land Transport (New Zealand)

NZS5433

Proper Shipping Name Ferric Sodium 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.

Land Transport (United States of America)

US DOT

Proper Shipping Name Ferric Sodium 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 Ferric Sodium 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 **EMS** No Data Available

Marine Pollutant No

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

Air Transport

IATA DGR

Proper Shipping Name

Class

No Data Available

Subsidiary Risk(s)

No Data Available

UN Number

No Data Available

Hazchem

No Data Available

Pack Group

No Data Available

No Data Available

No Data Available

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 ClassificationNOT Dangerous Goods according to the Criteria of 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) Listed

Canada (NDSL) Not Listed

China (IECSC) Listed

Europe (EINECS) 239-802-2

Europe (REACh) 01-2119496228-27-0005 (CHELFE4500 & CHELFE4505 only).

Japan (ENCS/METI) Not Determined

Korea (KECI) Listed

Malaysia (EHS Register) Not Determined

New Zealand (NZIoC) Listed

Philippines (PICCS) Listed

Switzerland (Giftliste 1) Not Determined

Switzerland (Inventory of Notified

Substances)

Not Determined

Taiwan (NCSR) Listed

USA (TSCA) Listed

16. OTHER INFORMATION

Related Product Codes

CHELFE4000, CHELFE4100, CHELFE4200, CHELFE4201, CHELFE4202, CHELFE4300, CHELFE4301, CHELFE4400, CHELFE4500, CHELFE4505, CHELFE4510, CHELFE4520, CHELFE4530, CHELFE4599, CHELFE6000, CHELFE9900

Revision 5

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 inH2O 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 m³ 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

mmH2O 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

SAFETY DATA SHEET FERRIC SODIUM EDTA REVISION 5, DATE 16 JUL 19