



# SAFETY DATA SHEET

## EDTA TETRASODIUM SALT LIQUID

### REVISION 4, DATE 15 JUL 22

## 1. IDENTIFICATION

<b>Product Name</b>	<b>EDTA Tetrasodium Salt Liquid</b>
<b>Other Names</b>	EDTA Tetrasodium Salt 40% Liq
<b>Uses</b>	Chelating agent; household and industrial cleaning, detergents, pulp and paper bleaching.
<b>Chemical Family</b>	No Data Available
<b>Chemical Formula</b>	Unspecified
<b>Chemical Name</b>	Tetrasodium EDTA Solution
<b>Product Description</b>	No Data Available

### Contact Details of the Supplier of this Safety Data Sheet

<b>Organisation</b>	<b>Location</b>	<b>Telephone</b>
Redox Ltd	2 Swettenham Road Minto NSW 2566 Australia	+61-2-97333000
Redox Ltd	11 Mayo Road Wiri Auckland 2104 New Zealand	+64-9-2506222
Redox Inc.	3960 Paramount Boulevard Suite 107 Lakewood CA 90712 USA	+1-424-675-3200
Redox Chemicals Sdn Bhd	Level 2, No. 8, Jalan Sapir 33/7 Seksyen 33, Shah Alam Premier Industrial Park 40400 Shah Alam Sengalor, Malaysia	+60-3-5614-2111

### Emergency Contact Details

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

<b>Organisation</b>	<b>Location</b>	<b>Telephone</b>
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** Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

**Hazard Categories**

Corrosive to Metals - Category 1

Acute Toxicity (Oral) - Category 4

Acute Toxicity (Inhalation) - Category 4

Skin Corrosion/Irritation - Category 1B

Serious Eye Damage/Irritation - Category 1

Specific Target Organ Toxicity (Repeated Exposure) - Category 2

**Pictograms**

**Signal Word** Danger

**Hazard Statements**

**H290** May be corrosive to metals.

**H302 + H332** Harmful if swallowed or if inhaled.

**H314** Causes severe skin burns and eye damage.

**H373** May cause damage to organs through prolonged or repeated inhalation exposure.

<b>Precautionary Statements</b>	Prevention	<b>P260</b>	Do not breathe mist/vapour/spray.
		<b>P280</b>	Wear protective gloves/protective clothing/eye protection/face protection.
		<b>P270</b>	Do not eat, drink or smoke when using this product.
		<b>P271</b>	Use only outdoors or in a well-ventilated area.
	Response	<b>P303 + P361 + P353</b>	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
		<b>P310</b>	Immediately call a POISON CENTER or doctor.
		<b>P305 + P351 + P338</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
		<b>P301 + P330 + P331</b>	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
		<b>P363</b>	Wash contaminated clothing before reuse.
		<b>P304 + P340</b>	IF INHALED: Remove victim to fresh air and keep comfortable for breathing.
		<b>P390</b>	Absorb spillage to prevent material-damage.
		<b>P405</b>	Store locked up.
Storage	<b>P406</b>	Store in corrosive resistant container with a resistant inner liner.	
	Disposal	<b>P501</b>	Dispose of contents/container in accordance with local / regional / national / international regulations.

**National Transport Commission (Australia)**

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

**Dangerous Goods Classification** Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

**Environmental Protection Authority (New Zealand)**

Hazardous Substances and New Organisms Amendment Act 2015

HSNO Classifications	Health Hazards	<b>6.1D</b>	Substances that are acutely toxic - Harmful
		<b>6.9B</b>	Substances that are harmful to human target organs or systems
		<b>8.1A</b>	Substances that are corrosive to metals
		<b>8.2C</b>	Substances that are corrosive to dermal tissue UN PGIII
		<b>8.3A</b>	Substances that are corrosive to ocular tissue

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Tetrasodium EDTA	C10H16N2O8.4Na	64-02-8	38 - 42 %
Trisodium NTA (Impurity)	C6H9NO6.3Na	5064-31-3	<=0.5 %
Water	H2O	7732-18-5	Balance %

### 4. FIRST AID MEASURES

#### Description of necessary measures according to routes of exposure

Swallowed	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a Poison Centre or doctor/physician for advice. 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. Immediately call a Poison Centre or doctor/physician for advice. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes.
Skin	IF ON SKIN (or hair): Immediately flush skin with running water for at least 15 minutes, while removing contaminated clothing and shoes. Wash skin with soap and water. Immediately call a Poison Centre or doctor/physician for advice. For minor skin contact, avoid spreading material on unaffected skin. Wash contaminated clothing and shoes before reuse.
Inhaled	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a Poison Centre or doctor/physician for advice. Give artificial respiration if victim is not breathing. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Administer oxygen if breathing is difficult.
Advice to Doctor	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet, if possible). Treat symptomatically. Keep victim calm and warm. Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Medical Conditions Aggravated by Exposure	No information available.

### 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. Dike fire-control water for later disposal; do not scatter the material.
Flammability Conditions	Non-combustible; however, after evaporation of the aqueous component under fire conditions, the residual material may decompose and/or burn.
Extinguishing Media	If material is involved in a fire, use dry chemical, Carbon dioxide (CO2), foam or water spray for extinction.
Fire and Explosion Hazard	When heated, vapours may form explosive mixtures with air: indoors, outdoors and sewers explosion hazards! Contact with metals may evolve flammable hydrogen gas. Containers may explode when heated.

<b>Hazardous Products of Combustion</b>	Thermal decomposition may produce irritating, corrosive and/or toxic gases, including Ammonia, Carbon oxides (COx), Nitrogen oxides (NOx).
<b>Special Fire Fighting Instructions</b>	Contain runoff from fire control or dilution water - Runoff may be corrosive and/or toxic and cause pollution.
<b>Personal Protective Equipment</b>	Wear positive pressure self-contained breathing apparatus (SCBA). Wear chemical protective clothing - It may provide little or no thermal protection. Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.
<b>Flash Point</b>	No Data Available
<b>Lower Explosion Limit</b>	No Data Available
<b>Upper Explosion Limit</b>	No Data Available
<b>Auto Ignition Temperature</b>	No Data Available
<b>Hazchem Code</b>	2X

## 6. ACCIDENTAL RELEASE MEASURES

<b>General Response Procedure</b>	Ensure adequate ventilation - Ventilate enclosed spaces before entering. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch or walk through spilled material. Do not breathe vapours and prevent contact with eyes, skin and clothing.
<b>Clean Up Procedures</b>	Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers for disposal (see SECTION 13).
<b>Containment</b>	Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas.
<b>Decontamination</b>	Wash away remainder with plenty of water.
<b>Environmental Precautionary Measures</b>	Spillages and decontamination runoff should be prevented from entering drains and watercourses.
<b>Evacuation Criteria</b>	Spill or leak area should be isolated immediately. Evacuate personnel to safe areas. Keep unauthorised personnel away. Keep upwind and to higher ground.
<b>Personal Precautionary Measures</b>	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing (see SECTION 8). *Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure adequate ventilation, especially in confined areas. Use only outdoors or in a well-ventilated area. Obtain special instructions before use - Do not handle until all safety precautions have been read and understood. Do not breathe mist/vapours/spray and prevent contact with eyes, skin and clothing. Do not ingest. Wear protective gloves/protective clothing/eye protection/face protection (see SECTION 8). Absorb spillage to prevent material damage (see SECTION 6).
<b>Storage</b>	Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep container upright and tightly closed - Check regularly for leaks. Keep away from heat and sources of ignition - No smoking. Keep away from foodstuffs and incompatible materials (see SECTION 10). Store locked up.
<b>Container</b>	Keep only in original packaging or store in a corrosion resistant container with a resistant inner liner. *May be corrosive to metals - Avoid Copper, Aluminium, Zinc, Copper alloys, Nickel.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>General</b>	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. Derived no-effect level (DNEL) for EDTA-4Na (CAS No. 64-02-8): - Worker, Inhalative (short-term, local effect): 3 mg/m <sup>3</sup>
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- Worker, Inhalative (long-term, local effect): 1.5 mg/m<sup>3</sup>
- Consumer, Inhalative (short-term, local effect): 1.2 mg/m<sup>3</sup>
- Consumer, Inhalative (long-term, local effect): 0.6 mg/m<sup>3</sup>
- Consumer, Oral (long-term, systemic effect): 25 mg/kg bw/day

**Exposure Limits**

No Data Available

**Biological Limits**

Predicted no-effect concentration (PNEC) for EDTA-4Na (CAS No. 64-02-8):

- Freshwater: 2.2 mg/L
- Sea water: 0.22 mg/L
- Intermittent releases: 0.72 mg/L
- Soil: 0.72 mg/L
- Sewage treatment plant: 43 mg/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.

**Personal Protection Equipment**

- Respiratory protection: In case of inadequate ventilation, wear respiratory protection. Recommended: Suitable mist/particulate filter respirator (refer to AS/NZS 1715 & 1716).
- Eye/face protection: Wear appropriate eye protection to prevent eye contact. Recommended: Safety goggles.
- Hand protection: Wear protective gloves. Recommended: Chemically-resistant gloves, e.g. Nitrile rubber (suitable for intermittent contact).
- Skin/body protection: Wear appropriate personal protective clothing to prevent skin contact. Recommended: Chemically-resistant clothing, apron.

**Special Hazards Precautions**

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

**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 storing or re-using.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State</b>	Liquid
<b>Appearance</b>	Clear liquid
<b>Odour</b>	Slight ammonia
<b>Colour</b>	Light yellow
<b>pH</b>	11.0 - 12.0
<b>Vapour Pressure</b>	No Data Available
<b>Relative Vapour Density</b>	No Data Available
<b>Boiling Point</b>	No Data Available
<b>Melting Point</b>	No Data Available
<b>Freezing Point</b>	<-18 °C
<b>Solubility</b>	Miscible with water
<b>Specific Gravity</b>	1.26 - 1.35
<b>Flash Point</b>	No Data Available
<b>Auto Ignition Temp</b>	No Data Available
<b>Evaporation Rate</b>	No Data Available
<b>Bulk Density</b>	No Data Available
<b>Corrosion Rate</b>	No Data Available
<b>Decomposition Temperature</b>	107 °C
<b>Density</b>	1.26 - 1.35 g/cm <sup>3</sup>
<b>Specific Heat</b>	No Data Available
<b>Molecular Weight</b>	No Data Available
<b>Net Propellant Weight</b>	No Data Available
<b>Octanol Water Coefficient</b>	<0

<b>Particle Size</b>	No Data Available
<b>Partition Coefficient</b>	No Data Available
<b>Saturated Vapour Concentration</b>	No Data Available
<b>Vapour Temperature</b>	No Data Available
<b>Viscosity</b>	20 mPa.s (@ 20 °C)
<b>Volatile Percent</b>	No Data Available
<b>VOC Volume</b>	No Data Available
<b>Additional Characteristics</b>	No information available.
<b>Potential for Dust Explosion</b>	Not applicable.
<b>Fast or Intensely Burning Characteristics</b>	No information available.
<b>Flame Propagation or Burning Rate of Solid Materials</b>	No information available.
<b>Non-Flammables That Could Contribute Unusual Hazards to a Fire</b>	No information available.
<b>Properties That May Initiate or Contribute to Fire Intensity</b>	Non-combustible; however, after evaporation of the aqueous component under fire conditions, the residual material may decompose and/or burn.
<b>Reactions That Release Gases or Vapours</b>	Thermal decomposition may produce irritating, corrosive and/or toxic gases, including Ammonia, Carbon oxides (COx), Nitrogen oxides (NOx).
<b>Release of Invisible Flammable Vapours and Gases</b>	When heated, vapours may form explosive mixtures with air: indoors, outdoors and sewers explosion hazards! Contact with metals may evolve flammable hydrogen gas.

## 10. STABILITY AND REACTIVITY

<b>General Information</b>	May be corrosive to metals.
<b>Chemical Stability</b>	Stable under normal conditions.
<b>Conditions to Avoid</b>	Keep away from heat and sources of ignition.
<b>Materials to Avoid</b>	Incompatible/reactive with strong oxidising agents, Copper, Aluminium, Zinc, Copper alloys, Nickel.
<b>Hazardous Decomposition Products</b>	Thermal decomposition may produce irritating, corrosive and/or toxic gases, including Ammonia, Carbon oxides (COx), Nitrogen oxides (NOx).
<b>Hazardous Polymerisation</b>	No information available.

## 11. TOXICOLOGICAL INFORMATION

<b>General Information</b>	<ul style="list-style-type: none"> <li>- Acute toxicity: Harmful if swallowed and if inhaled.</li> <li>- Skin corrosion/irritation: Causes severe skin burns and eye damage.</li> <li>- Eye damage/irritation: Causes serious eye damage.</li> <li>- Respiratory/skin sensitisation: No sensitization responses were observed.</li> <li>- Germ cell mutagenicity: Not classified.</li> <li>- Carcinogenicity: Not classified. COMPONENT: Trisodium NTA is Suspected of causing cancer. Nitrilotriacetic acid and its salts are Classified by the IARC Monographs as "Possibly carcinogenic to humans" (Group 2B).</li> <li>- Reproductive toxicity: Not classified.</li> <li>- STOT (single exposure): Not classified.</li> <li>- STOT (repeated exposure): May cause damage to organs through prolonged or repeated exposure (analogue substance Na2H2EDTA) [ECHA].</li> <li>- Aspiration toxicity: Not classified.</li> </ul>
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**Acute**

<b>Ingestion</b>	Acute toxicity (Oral): COMPONENT: Tetrasodium EDTA (CAS No. 64-02-8): - LD50, Rat (male/female): >1,780 - <2,000 mg/kg bw. [Supplier's SDS].
<b>Carcinogen Category</b>	None

**12. ECOLOGICAL INFORMATION**

<b>Ecotoxicity</b>	Aquatic toxicity: COMPONENT: Tetrasodium EDTA (CAS No. 64-02-8): - LC50, Fish (Lepomis macrochirus): 41 mg/L (96 h) [Supplier's SDS]. - EC50, Crustacea (Daphnia magna): 610 mg/L (24 h) [Supplier's SDS]. - EC50, Algae/aquatic plants (Desmodesmus subspicatus): 2.77 mg/L (72 h) [Supplier's SDS].
<b>Persistence/Degradability</b>	No information available.
<b>Mobility</b>	No information available.
<b>Environmental Fate</b>	Prevent entry into drains and waterways. *This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).
<b>Bioaccumulation Potential</b>	Material does not bioaccumulate.
<b>Environmental Impact</b>	No Data Available

**13. DISPOSAL CONSIDERATIONS**

<b>General Information</b>	Dispose of waste from residues/unused product in accordance with applicable local/regional/national regulations.
<b>Special Precautions for Land Fill</b>	Contaminated packaging: Empty containers should be taken for local recycling, recovery or waste disposal.

**14. TRANSPORT INFORMATION****Land Transport (Australia)**

ADG Code

<b>Proper Shipping Name</b>	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (contains Tetrasodium EDTA)
<b>Class</b>	8 Corrosive Substances
<b>Subsidiary Risk(s)</b>	No Data Available
<b>EPG</b>	36 Toxic And/Or Corrosive Substances Combustible
<b>UN Number</b>	3267
<b>Hazchem</b>	2X
<b>Pack Group</b>	III
<b>Special Provision</b>	No Data Available

**Land Transport (Malaysia)**

ADR Code

<b>Proper Shipping Name</b>	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (contains Tetrasodium EDTA)
<b>Class</b>	8 Corrosive Substances
<b>Subsidiary Risk(s)</b>	No Data Available

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<b>EPG</b>	36 Toxic And/Or Corrosive Substances Combustible
<b>UN Number</b>	3267
<b>Hazchem</b>	2X
<b>Pack Group</b>	III
<b>Special Provision</b>	No Data Available

### Land Transport (New Zealand)

NZS5433

<b>Proper Shipping Name</b>	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (contains Tetrasodium EDTA)
<b>Class</b>	8 Corrosive Substances
<b>Subsidiary Risk(s)</b>	No Data Available
<b>EPG</b>	36 Toxic And/Or Corrosive Substances Combustible
<b>UN Number</b>	3267
<b>Hazchem</b>	2X
<b>Pack Group</b>	III
<b>Special Provision</b>	No Data Available

### Land Transport (United States of America)

US DOT

<b>Proper Shipping Name</b>	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (contains Tetrasodium EDTA)
<b>Class</b>	8 Corrosive Substances
<b>Subsidiary Risk(s)</b>	No Data Available
<b>ERG</b>	153 Substances - Toxic and/or Corrosive (Combustible)
<b>UN Number</b>	3267
<b>Hazchem</b>	2X
<b>Pack Group</b>	III
<b>Special Provision</b>	No Data Available

### Sea Transport

IMDG Code

<b>Proper Shipping Name</b>	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (contains Tetrasodium EDTA)
<b>Class</b>	8 Corrosive Substances
<b>Subsidiary Risk(s)</b>	No Data Available
<b>UN Number</b>	3267
<b>Hazchem</b>	2X
<b>Pack Group</b>	III
<b>Special Provision</b>	No Data Available
<b>EMS</b>	F-A, S-B
<b>Marine Pollutant</b>	No

### Air Transport

IATA DGR

<b>Proper Shipping Name</b>	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (contains Tetrasodium EDTA)
<b>Class</b>	8 Corrosive Substances
<b>Subsidiary Risk(s)</b>	No Data Available
<b>UN Number</b>	3267
<b>Hazchem</b>	2X
<b>Pack Group</b>	III

## Special Provision

No Data Available

## National Transport Commission (Australia)

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

## Dangerous Goods Classification

Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road &amp; 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

HSR002491

## National/Regional Inventories

## Australia (AIIIC)

Listed

## Canada (DSL)

Not Determined

## Canada (NDSL)

Not Determined

## China (IECSC)

Not Determined

## Europe (EINECS)

Not Determined

## 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)

Not Determined

## 16. OTHER INFORMATION

Related Product Codes	EDTATL1000, EDTATL1001, EDTATL1002, EDTATL1003, EDTATL1004, EDTATL2000, EDTATL2900, EDTATL3000, EDTATL3100, EDTATL3101, EDTATL3102, EDTATL3103, EDTATL3500, EDTATL4000, EDTATL5000, EDTATL6000, EDTATL7000, EDTATL7500, EDTATL7700, EDTATL7720, EDTATL7850, EDTATL8000, EDTATL8001, EDTATL9000, EDTATL9500
Revision	4
Revision Date	15 Jul 2022
Reason for Issue	Updated SDS
Key/Legend	<p>&lt; Less Than &gt; Greater Than</p> <p><b>AICS</b> Australian Inventory of Chemical Substances  <b>atm</b> Atmosphere  <b>CAS</b> Chemical Abstracts Service (Registry Number)  <b>cm<sup>2</sup></b> Square Centimetres  <b>CO<sub>2</sub></b> Carbon Dioxide  <b>COD</b> Chemical Oxygen Demand  <b>deg C (°C)</b> Degrees Celcius  <b>EPA (New Zealand)</b> Environmental Protection Authority of New Zealand  <b>deg F (°F)</b> Degrees Fahrenheit  <b>g</b> Grams  <b>g/cm<sup>3</sup></b> Grams per Cubic Centimetre  <b>g/l</b> Grams per Litre  <b>HSNO</b> Hazardous Substance and New Organism  <b>IDLH</b> Immediately Dangerous to Life and Health  <b>immiscible</b> Liquids are insoluable in each other.  <b>inHg</b> Inch of Mercury  <b>inH<sub>2</sub>O</b> Inch of Water  <b>K</b> Kelvin  <b>kg</b> Kilogram  <b>kg/m<sup>3</sup></b> Kilograms per Cubic Metre  <b>lb</b> Pound  <b>LC<sub>50</sub></b> LC stands for lethal concentration. LC<sub>50</sub> 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.  <b>LD<sub>50</sub></b> LD stands for Lethal Dose. LD<sub>50</sub> is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.  <b>ltr or L</b> Litre  <b>m<sup>3</sup></b> Cubic Metre  <b>mbar</b> Millibar  <b>mg</b> Milligram  <b>mg/24H</b> Milligrams per 24 Hours  <b>mg/kg</b> Milligrams per Kilogram  <b>mg/m<sup>3</sup></b> Milligrams per Cubic Metre  <b>Misc or Miscible</b> Liquids form one homogeneous liquid phase regardless of the amount of either component present.  <b>mm</b> Millimetre  <b>mmH<sub>2</sub>O</b> Millimetres of Water  <b>mPa.s</b> Millipascals per Second  <b>N/A</b> Not Applicable  <b>NIOSH</b> National Institute for Occupational Safety and Health  <b>NOHSC</b> National Occupational Health and Safety Commission  <b>OECD</b> Organisation for Economic Co-operation and Development  <b>Oz</b> Ounce  <b>PEL</b> Permissible Exposure Limit  <b>Pa</b> Pascal  <b>ppb</b> Parts per Billion  <b>ppm</b> Parts per Million  <b>ppm/2h</b> Parts per Million per 2 Hours  <b>ppm/6h</b> Parts per Million per 6 Hours  <b>psi</b> Pounds per Square Inch  <b>R</b> Rankine  <b>RCP</b> Reciprocal Calculation Procedure  <b>STEL</b> Short Term Exposure Limit</p>

## **SAFETY DATA SHEET EDTA TETRASODIUM SALT LIQUID REVISION 4, DATE 15 JUL 22**

**TLV** Threshold Limit Value

**tne** Tonne

**TWA** Time Weighted Average

**ug/24H** Micrograms per 24 Hours

**UN** United Nations

**wt** Weight