

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product Identifier:

Product Name: EDTA 40% Liquid
Synonyms: Ethylenediaminetetraacetic acid, tetra sodium salt; EDTA-NA4
CAS Number: 64-02-8
HMRC Commodity Code: 292121000
REACH Registration Number: 01-2119486762-22-XXXX

Relevant identified uses of the substance or mixture and uses advised against:

Identified uses: Chelating agent, used in washing, daily chemical, textile and other industries.
Uses advised against: Not available

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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Classification 1272/2008 (CLP): Acute toxicity - Oral Category 4 - (H302)
Acute toxicity - Inhalation (Gases) Category 4 - (H332)
Serious eye damage/eye irritation Category 1 - (H318)
Skin Corrosion/Irritation Category 1C - (H314)

Label elements:

Labelling according to Regulation (EC) No 1272/2008:

Hazard pictograms:



Signal word:

Warning

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Hazard statements: H290- May be corrosive to metals.
H319 - Causes serious eye irritation.
H332 - Harmful if inhaled

Precautionary Statements (prevention): P234 – Keep only in original container.
P260 – Do not breathe mist or vapour.
P264 – Wash with plenty of water and soap thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P280d – Wear eye/face protection.

Precautionary Statements (response): P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 – Call a POISON CENTRE or doctor/physician if you feel unwell.
P337 + P311 – IF eye irritation persists: Call a POISON CENTRE or doctor/physician.
P390 – Absorb spillage to prevent material damage.

Precautionary Statements (storage): P406 – Store in corrosive resistant/... container with a resistant inner liner.
According to Regulation (EC) No 1272/2008 [CLP].

Other hazards:

According to Regulation (EC) No 1272/2008 [CLP].

No specific dangers known, if the regulations/notes for storage and handling are considered.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterisation:	Mixtures
Chemical name:	Tetrasodium EDTA
EC No.:	200-573-9
CAS No.:	64-02-8
Concentration:	40.0%
Classification:	Acute Tox. 4; H302. Acute Tox. 4; H332. Eye Dam. 1; H318.
Chemical name:	Trisodium NTA (Impurity)
EC No.:	225-768-6
CAS No.:	5064-31-3
Concentration:	0.1%
Classification:	Carc. Cat. 2; H351. Acute Tox. 4; H302 Eye Irrit. 2; H319

4. FIRST AID MEASURES

Description of first aid measures:

General information: In case of accident or illness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

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Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

Eye contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion: Rinse mouth.

Most important symptoms and effects, both acute and delayed: Harmful if swallowed. Causes serious eye damage. Harmful if inhaled. Suspected of causing cancer.

Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing Media:

Suitable extinguishing media: Dry chemical, CO₂, water spray or regular foam.

Unsuitable extinguishing media: No information available

Special hazards arising from the substance or mixture: Thermal decomposition can lead to release of irritating and toxic gases and vapours.

Advice for fire-fighters: Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation, especially in confined areas. Do not breathe dust/fume/gas/mist/vapours/spray.

Environmental precautions: Prevent product from entering drains.

Methods and material for containment and cleaning up: Collect spillage. Sweep up and shovel into suitable containers for disposal. Avoid generation of dust.

Reference to other sections: See Section 7 for information on safe handling.
See section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

7. HANDLING AND STORAGE

Precautions for safe handling: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Avoid generation of dust. Do not breathe dust/fume/gas/mist/vapours/spray.

Conditions for safe storage, including any incompatibilities: Keep tightly closed in a dry and cool place.

Specific end use(s): No further relevant information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters: This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

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Derived No Effect Level (DNEL):

Inhalation:	Worker – inhalative, short-term - systemic 2.5 mg/m ³ Worker – inhalative, short-term - local 2.5 mg/m ³ Consumer – inhalative, short-term, systemic 1.5 mg/m ³ Consumer – inhalative, short-term, local 1.5 mg/m ³
Oral:	Consumer – oral, long-term-systemic 25 mg/kg bw/day

Predicted No Effect Concentration (PNEC):

Fresh Water:	2.2 mg/l
Sea Water:	0.22 mg/l
Soil:	0.72 mg/l
Impact on Sewage Treatment:	43 mg/l

Exposure controls:

Appropriate engineering controls: Ensure adequate ventilation, especially in confined areas.

Eye/face protection: Wear safety glasses with side shields (or goggles).

Hand protection: Wear chemically resistant gloves (tested to EN374) in combination with intensive management supervision controls.

Skin and body protection: Suitable protective clothing.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Appearance:	Liquid
Colour:	Faint yellow
Odour:	Odourless
Odour threshold:	Not applicable
pH:	10.5 – 12.0
Melting point/range:	Decomposition >150°C
Boiling point/range:	106°C
Flash point:	Not available
Evaporation rate:	Not available
Flammability (solid/gas):	Not highly flammable solid. Combustible solid
Flammability limit in air:	No information available
Vapour pressure:	2E-012 hPa at 25°C
Vapour density:	Not available
Density:	No information available
Relative density:	1.26 – 1.35 g/cm ³
Bulk density:	No information available
Specific gravity:	No information available
Water solubility:	500 g/l at 20°C
Partition Coefficient:	No information available
Auto ignition temperature:	>200°C at 1013.25 hPa

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Decomposition temperature: >150°C
Kinematic viscosity: No information available
Dynamic viscosity: No information available
Explosive properties: Not an explosive
Oxidising properties: No oxidising properties
Other information: No further information

10. STABILITY AND REACTIVITY

Reactivity: Stable under normal conditions
Chemical stability: Stable under recommended storage conditions
Possibility of hazardous reactions: None under normal processing
Conditions to avoid: Dust formation
Incompatible materials: Strong oxidising agents
Hazardous decomposition products: Ammonia. Carbon oxides (COx). Nitrogen oxides (NOx)

11. TOXICOLOGICAL INFORMATION

Acute toxicity: Tetrasodium EDTA
Oral: LD50 >1780 - <2000 mg/kg bw (male/female Rat)
Dermal: No information
Inhalation- LOAEC: ca. 30 mg/m³ air (male) based on: act. ingr. (Na₂H₂EDTA) (Basis for effect level: Histopathology of the respiratory tract and lung weights)
Skin corrosion/irritation: Causes severe skin burns
Serious eye damage/irritation: Causes severe eye damage
Sensitisation: No sensitising responses were observed
Germ cell mutagenicity: Not classified
Carcinogenicity: Trisodium NTA (impurity): carcinogenicity, category 2
Reproductive toxicity: Not classified
STOT- single exposure: Not classified
STOT-repeated exposure: Not classified
Aspiration hazard: Not classified

12. ECOLOGICAL INFORMATION

Toxicity:

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Tetrasodium EDTA	EC50 = 2.77 mg/L/72H (Desmodesmus subspicatus)	LC50 = 41 mg/L/96h (Lepomis macrochirus)	EC50 = 610 mg/L/24h (Daphnia magna)

Persistence and degradability: No data available
Bio accumulative potential: Material does not bio accumulate
Mobility in soil: No data available
Results of PBT and vPvB assessment: This substance is not considered to be persistent, bio accumulating nor toxic (PBT).
Other adverse effects: No information available

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13. DISPOSAL CONSIDERATIONS

Waste treatment methods: Waste from residues/unused products.
Disposal should be in accordance with applicable regional, national and local laws and regulations.

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

14. TRANSPORT INFORMATION

UN number: 3267

Proper shipping name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (contains Tetrasodium EDTA)

Hazard class: 8

Packing group: III

Environmental hazards: Not applicable

Special precautions: No information available

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

European Union.

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Take note of Directive 94/33/EC on the protection of young people at work.

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work.

International inventories.

Component	TSCA	DSL/NDL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Tetrasodium EDTA 64-02-8	X	X	X	X	X	X	X	X
Trisodium NTA 5064-31-3	X	X	X	X	X	X	X	X

Chemical safety assessment: Chemical safety assessment has not been carried out.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet:

TWA: (time-weighted average)

STEL: (Short Term Exposure Limit)

Ceiling: Maximum limit value

TSCA: United States Toxic Substances Control Act Section 8(b) Inventory

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DSL/NDL:	Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS:	European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS:	Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical
Substances KECL:	Korean Existing and Evaluated Chemical Substances
PICCS:	Philippines Inventory of Chemicals and Chemical Substances
AICS:	Australian Inventory of Chemical Substances

Full text of H-Statements referred to under section 3:

H332 - Harmful if inhaled H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage. H318 - Causes serious eye damage

H351 - Suspected of causing cancer H319 - Causes serious eye irritation.

Legal disclaimer:

The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.