
Section 01 Identification

Product Identifier	ClearClean 75
Other Means of Identification	EDTA, tetrasodium salt; Edetic acid, tetrabasic; edetate sodium; tetrasodium ethylene diamine tetraacetate; Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, sodium salt (1:4)
Product Use and Restrictions on Use	Chelating agent, sequestering agent, and cleaning boilers in power plants.
Initial Supplier Identifier	ClearTech Industries Inc. Advance Chemicals Ltd. 1500 Quebec Avenue Saskatoon, SK. Canada S7K 1V7 Phone: 800.387.7503 Fax: 888.281.8109 www.cleartech.ca
Prepared By	ClearTech Industries Inc. technical writer
24-Hour Emergency Phone	306.664.2522

Section 02 Hazard Identification

Physical Hazards

This product does not qualify for any physical hazard class under WHMIS 2015

Health Hazards

Acute toxicity - oral Category 4

Skin corrosion / irritation Category 1

Signal Word

Danger

Hazard Statements

H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage.

Pictograms



Precautionary Statements

Prevention

Customer Service: 800.387.7503

www.cleartech.ca

Emergency: 306.664.2522

Revision Date: January 24, 2019

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- P260 Do not breathe vapours, fumes, and mists.
P264 Wash affected body parts thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves, protective clothing, eye protection, face protection.

Response

- P301 P312 P330 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor if you feel unwell.
P331
P303 P361 P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse.
P363
P304 P340 P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.
P305 P351 P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage

- P405 Store locked up.

Disposal

- P501 Dispose of contents / container in accordance with all federal, provincial and / or local regulations including the Canadian Environmental Protection Act.

Hazards Not Otherwise Classified

Not available

Supplemental Information

Not available

Section 03 Composition / Information on Ingredients

Hazardous Ingredients:

Chemical name	Common name(s)	CAS number	Concentration (w/w%)
Tetrasodium ethylene diamine tetraacetate	Edetate sodium; EDTA, Tetrasodium salt	64-02-8	38-42%

Section 04 First-Aid Measures

Description of necessary first-aid measures

- Inhalation** Get medical advice / attention if you feel unwell or are concerned.
- Ingestion** Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor. If vomiting occurs naturally, lie on your side, in the recovery position. Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.
- Skin contact** Avoid direct contact. Wear chemical protective clothing, if necessary. 30 minutes. Rinse skin with lukewarm, gently flowing water / shower for 30 minutes. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before re-use, or discard.
- Eye contact** Avoid direct contact. Wear chemical protective gloves, if necessary. Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for 30 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. Immediately call a POISON CENTER or doctor.

Most important symptoms and effects, both acute and delayed

Inhalation	Not available
Ingestion	Causes burns to the mouth and throat. Harmful if swallowed. Abdominal pain.
Skin contact	Causes severe skin burns. Redness.
Eye contact	Causes serious eye damage. Redness. Pain.
Further information	For further information see Section 11 Toxicological Information.

Section 05 Fire Fighting Measures

Suitable extinguishing media	Extinguish fire using extinguishing agents suitable for the surrounding fire.
Unsuitable extinguishing media	Not available
Specific hazards arising from the chemical	Oxides of nitrogen and carbon will form in the event of a fire.
Special protective equipment for fire-fighters	Wear NIOSH-approved self-contained breathing apparatus and protective clothing.

Section 06 Accidental Release Measures

Personal Precautions / Protective Equipment / Emergency Procedures	Wear appropriate personal protective equipment. Ventilate area. Only enter area with PPE. Stop or reduce leak if safe to do so.
Environmental Precautions	Prevent material from entering sewers or confined spaces. Notify local health and wildlife officials. Notify operators of nearby water intakes.
Methods and Materials for Containment and Cleaning Up	SMALL SPILLS: Clean up spill with non-reactive absorbent and place in suitable, covered, labeled containers. Flush area with water. Contaminated absorbent material may pose the same hazards as the spilled product. LARGE SPILLS: Contact fire and emergency services and supplier for advice.

Section 07 Handling and Storage

Precautions for Safe Handling	Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure. Avoid generating vapours, fumes, and mists. Prevent the release of vapours, fumes, and mists into the workplace air. Inspect containers for damage or leaks before handling. If the original label is damaged or missing replace with a workplace label. Never return contaminated material to its original container. Have suitable emergency equipment for fires, spills and leaks readily available.
Conditions for Safe Storage	Store in a cool, dry, well-ventilated area, out of direct sunlight, away from heat sources and incompatible materials. Always store in original labeled container. Keep containers tightly closed when not in use and when empty. Empty containers may contain hazardous residues. Protect label and keep it visible.
Incompatibilities	Strong oxidizing agents

Section 08 Exposure Controls and Personal Protection

Exposure limits

There are no known exposure limits for this product.

Engineering controls

Ventilation Requirements Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions must be provided in accordance with all fire codes and regulatory requirements. Supply sufficient replacement air to make up for air removed by exhaust systems.

Other An emergency shower and eyewash station must be available, tested, and be in close proximity to the product being handled in accordance with provincial regulations.

Protective equipment

Eye and face protection Chemical goggles, full-face shield, or a full-face respirator is to be worn at all times when product is handled. Contact lenses should never be worn; they may contribute to severe eye injury.

Hand protection Impervious gloves of chemically resistant material (rubber or PVC) should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse.

Foot protection Impervious boots of chemically resistant material should be worn at all times. No special footwear is required other than what is mandated at place of work.

Skin and body protection Body suite, aprons, and/or coveralls of chemical resistant material should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse. Resistance of specific materials can vary from product to product. Breakthrough times are obtained under conditions of continuous contact, generally at room temperature. Evaluate resistance under conditions of use and maintain clothing carefully.

Respiratory protection No specific guidelines are available. Where required, an approved respirator suitable for non-toxic vapours, fumes, and mists may be adequate.

Thermal hazards Not available

Section 09 Physical and Chemical Properties

Appearance

Physical state Liquid

Colour Clear to straw-coloured

Odour Not available

Odour threshold Not available

Property

pH 11-12

Melting point / freezing point -21 °C

Initial boiling point and boiling range >100 °C

Flash point Not available

Evaporation rate	Not available
Flammability	Not applicable
Upper flammable limit	Not available
Lower flammable limit	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	Not applicable
Solubility	Soluble in water
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Specific gravity	1.285 g/mL
Formula	$((\text{NaOOCCH}_2)_2\text{NCH}_2)_2$
Molecular weight	380.171 g/mol

Section 10 Stability and Reactivity

Reactivity	Basic, will react with acids. Organic, will react with strong oxidizing agents.
Stability	Stable under normal conditions
Possibility of hazardous reactions	Not available
Conditions to avoid	Sunlight, heat, contact with incompatible products
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	Oxides of nitrogen and carbon

Section 11 Toxicological Information

Acute Toxicity (LD50 values)

Component	Route	Species	Value	Exposure time
EDTA, tetrasodium salt	Intraperitoneal	Mouse	330 mg/kg	

Percentage of product with unknown toxicity:

Toxic Health Effect Summary

Chemical Characteristics	The toxic effects of EDTA and it's salts are related to it's pH effects and it's ability to chelate metal ions.
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Skin	Causes severe skin burns. Redness. Mild irritation
Ingestion	Causes burns to the mouth and throat. Burning sensation in the throat and chest. Abdominal pain. Diarrhoea.
Inhalation	Cough. Sore throat.
Eye contact	Causes serious eye damage. This product causes eye damage principally due to the high pH.
Delayed and Chronic	Not available

Section 12 Ecological Information

Ecotoxicity

Component	Type	Species	Value	Exposure Time
EDTA, tetrasodium salt	LC50	Lepomis macrochirus (bluegill)	486 mg/L	96 hours
	LC50	Daphnia magna (water flea)	625 mg/L	24 hours

Percentage of product with unknown toxicity:

Biodegradability	The product is readily biodegradable, but when EDTA chelates with a metal ion it form an inert stable compound that does not readily break down without the presence of sunlight.
Bioaccumulation	Not available
Mobility	Water soluble, does not readily evaporate
Other adverse effects	Not available

Section 13 Disposal Considerations

Waste From Residues / Unused Products	Dispose in accordance with all federal, provincial, and local regulations including the Canadian Environmental Protection Act.
Contaminated Packaging	Do not remove label, follow label warnings even after the container is empty. Empty containers should be recycled or disposed of at an approved waste handling facility.

Section 14 Transport Information

UN number	UN3267
UN proper shipping name	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Ethylenediamine tetraacetic acid, tetra sodium salt)
Transport hazard class(es)	8
Packing group	III
Excepted quantities	5 L
Environmental hazards	Not listed as a marine pollutant under Canadian TDG Regulations.
Special precautions	Not available
Transport in bulk	Not available

Additional information Secure containers (full or empty) with suitable hold down devices during shipment and ensure all caps, valves, or closures are secured in the closed position.

TDG PRODUCT CLASSIFICATION: This product has been classified on the preparation date specified at section 16 of this SDS, for transportation in accordance with the requirements of part 2 of the Transportation of Dangerous Goods Regulations. If applicable, testing and published test data regarding the classification of this product are listed in the references at section 16 of this SDS.

Section 15 Regulatory Information

NOTE: THE PRODUCT LISTED ON THIS SAFETY DATA SHEET HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN HAZARDOUS PRODUCTS REGULATIONS. THIS SAFETY DATA SHEET CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.

Section 16 Other Information

Date of latest revision: January 24, 2019

Note: The responsibility to provide a safe workplace remains with the buyer / user. The buyer / user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the buyer / user to comply with all applicable laws and regulations regarding handling, using, reselling and shipping this product.

Attention: Receiver of the chemical goods / SDS coordinator

As part of our commitment to the RDC Responsible Distribution® initiative, ClearTech Industries Inc. and its associated companies require, as a condition of sale, that you forward the attached Safety Data Sheet(s) to all affected employees, customers, and end-users. ClearTech will send any available supplementary handling, health, and safety information to you at your request.

If you have any questions or concerns please call our customer service center.

References:

- 1) CHEMINFO
- 2) TOXNET
- 3) eChemPortal
- 4) ECHA
- 5) Transportation of Dangerous Goods Canada
- 6) HSDB
- 7) PAN