

Safety Data Sheet

1. IDENTIFICATION

Product Identifier: CLT-234
Product Code: S746
Other Name(s):

Date of Revision: February 09, 2017

Recommended Use and Restrictions on Use: boiler water treatment

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2. HAZARD IDENTIFICATION

Classification of the Mixture: Eye Damage/Irritation - Category 1
Skin Corrosion/Irritation - Category 2

Label Elements:

Hazard Pictogram(s):



Signal Word: DANGER

Hazard Statement(s): Causes serious eye damage.
Causes skin irritation.

Precautionary Statement(s):

Prevention: Wash hands thoroughly after handling.
Wear protective gloves and eye protection.

Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
Immediately call a poison centre or physician.
IF ON SKIN: Wash with plenty of water.
If skin irritation occurs: Get medical advice.
Take off contaminated clothing and wash it before reuse.

Storage: not applicable

Disposal: not applicable

Physical/health hazards not otherwise classified:

not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Conc.</u>	<u>CAS #</u>	<u>Common Names</u>
tetrasodium salt of ethylene diamine tetraacetic acid (40%)	5.0%	64-02-8	
morpholine	4.0%	110-91-8	

4. FIRST-AID MEASURES

Necessary Measures:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
Immediately call a poison centre or physician.
IF ON SKIN: Wash with plenty of water.
If skin irritation occurs: Get medical advice.
Take off contaminated clothing and wash it before reuse.

Most important symptoms, both acute and delayed:

Causes serious eye damage.
Causes skin irritation.

Indication of immediate medical attention and special treatment needed, if necessary:

not applicable

5. FIRE-FIGHTING MEASURES**Suitable (and unsuitable) extinguishing media:**

Use extinguishing media appropriate for surrounding fire.

Specific hazards arising from the chemical (e.g.: hazardous combustion products):

May liberate carbon monoxide, carbon dioxide and nitrogen oxides.

Special protective equipment and precautions for firefighters:

As for surrounding fire. Firefighters should wear full protective clothing and self contained breathing equipment.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures:**

Wear appropriate protective equipment. See section 8.

Environmental precautions:

Prevent from entering sewers, waterways or low areas.

Methods and materials for containment and cleaning up:

Isolate hazard area and restrict access. Small spills: soak up with inert absorbent material and scoop into containers.

Large spills: prevent contamination of waterways. Dike and pump into suitable containers. Clean up residual with absorbent material, place in appropriate container and flush with water.

7. HANDLING AND STORAGE**Precautions for safe handling:**

Wash hands thoroughly after handling.

Do not ingest. Avoid contact with eyes, skin and clothing.

Conditions for safe storage, including any incompatibilities:

Keep out of reach of children. Store in a cool, dry area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters - Exposure limits:**Ingredient:

tetrasodium salt of ethylene diamine

tetraacetic acid (40%)

morpholine

Limit:

not available

ACGIH TLV-TWA: 20 ppm

Appropriate engineering controls:

Provide exhaust ventilation to keep airborne levels below recommended exposure limits.

Respiratory protection:

If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved respirator.

Other protection:

Wear protective gloves and eye protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, colour etc.):	clear, amber liquid
Odour:	distinct odour
Odour threshold:	not available
pH:	9.7
Melting/Freezing point:	not available
Initial boiling point and range:	not available
Flash point:	NONE
Evaporation rate:	not available
Flammability (solid, gas):	not available
Upper/lower flammability or explosive limits:	not available
Vapour pressure:	not available
Vapour density:	not available
Relative density (specific gravity):	1.084
Solubility(ies):	complete
Partition co-efficient: n-octanol/water:	not available
Auto-ignition temperature:	not available
Decomposition temperature:	not available
Viscosity:	not available

10. STABILITY AND REACTIVITY

Reactivity:

This material is considered to be non-reactive under normal use conditions.

Chemical stability:

Stable.

Possibility of hazardous reactions:

not available

Conditions to avoid (e.g.: static discharge, shock or vibration):

not applicable

Incompatible materials:

Oxidizers / Acid

Hazardous decomposition products:

not available

11. TOXICOLOGICAL INFORMATION

POTENTIAL ACUTE HEALTH EFFECTS

Inhalation: High vapour concentrations caused, for example, by heating the material in an enclosed and poorly ventilated workplace, may produce nausea, vomiting, headache, dizziness, and irregular eye movements. Prolonged or repeated overexposure may result in lung damage. Prolonged or repeated overexposure may result in the absorption of potentially harmful amounts of material.

Ingestion: May be harmful if swallowed.

Eye contact: Causes serious eye damage.

Skin contact: Causes skin irritation.

Skin absorption: not available

POTENTIAL CHRONIC HEALTH EFFECTS

Inhalation: not available

Ingestion: not available

Eye contact: not available

Skin contact: not available

Skin absorption: not available

Mutagenicity: not available

Carcinogenicity: This information, if applicable, can be found in Section 2.

Reproductive toxicity: This information, if applicable, can be found in Section 2.

Sensitization of product: This information, if applicable, can be found in Section 2.

Specific Target Organ Toxicity - single exposure: This information, if applicable, can be found in Section 2.

Specific Target Organ Toxicity - repeated exposure: This information, if applicable, can be found in Section 2.

Toxicological Data:

Ingredient:

tetrasodium salt of ethylene diamine tetraacetic acid (40%)

morpholine

Data:

Oral LD50: 1000 mg/kg (rat)

Oral LD50: 1900 mg/kg (rat)

Dermal LD50: 500 mg/kg (rabbit)

Other Toxicological Information on Ingredients:

not applicable

12. ECOLOGICAL INFORMATION

Ecotoxicity (aquatic and terrestrial, where available): not available

Persistence and degradability: not available

Bioaccumulative potential: not available

Mobility in soil: not available

Other adverse effects: not available

Ecological Information on Ingredients: not available

13. DISPOSAL CONSIDERATIONS

Waste disposal: Disposal of all waste must be done according to local, provincial and federal regulations.

14. TRANSPORT INFORMATION

TDG classification: NON-REGULATED

15. REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

16. PREPARATION INFORMATION

Prepared by: Technical Services Department, Halabi Chemicals Ltd., Ph.: 780-473-2608

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