

# Safety Data Sheet

## 1. IDENTIFICATION

**Product Identifier:** NO. 34 BOILER COMPOUND **Date of Revision:** January 31, 2018  
**Product Code:** S746  
**Other Name(s):**  
**Distributed By:**  
**Recommended Use and Restrictions on Use:** boiler water treatment  
**Manufactured By:** Ostrem Chemical Co. Ltd. Phone: 780-440-1911  
2310 - 80th Avenue NW In Case of Emergency Only, Phone  
Edmonton, Alberta, Canada T6P 1N2 CANUTEC: 613-996-6666  
www.ostrem.com

## 2. HAZARDS 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 - 10%	64-02-8	
morpholine	3 - 7%	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.

# Safety Data Sheet

## 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

<b>Appearance (physical state, colour etc.):</b>	clear, amber liquid
<b>Odour:</b>	distinct odour
<b>Odour threshold:</b>	not available
<b>pH:</b>	9.7
<b>Melting/Freezing point:</b>	not available
<b>Initial boiling point and range:</b>	not available
<b>Flash point:</b>	NONE
<b>Evaporation rate:</b>	not available

# Safety Data Sheet

<b>Flammability (solid, gas):</b>	not available
<b>Upper/lower flammability or explosive limits:</b>	not available
<b>Vapour pressure:</b>	not available
<b>Vapour density:</b>	not available
<b>Relative density (specific gravity):</b>	1.084
<b>Solubility(ies):</b>	complete
<b>Partition co-efficient: n-octanol/water:</b>	not available
<b>Auto-ignition temperature:</b>	not available
<b>Decomposition temperature:</b>	not available
<b>Viscosity:</b>	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)

# Safety Data Sheet

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## Other Toxicological Information on Ingredients:

### 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, Ostrem Chemical Co. Ltd., Ph.: 780-440-1911

**Date of Preparation:** February 09, 2017

**Date of Revision:** January 31, 2018

This Safety Data Sheet may not be changed or altered in any way without the express knowledge and permission of Ostrem Chemical Co. Ltd.

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