

# Safety Data Sheet

## 1. IDENTIFICATION

**Product Identifier:** SBT-410  
**Product Code:** S762  
**Other Name(s):**

**Date of Revision:** February 02, 2017

**Recommended Use and Restrictions on Use:** boiler water treatment

**Distributed By:** Halabi Chemicals Ltd.  
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## 2. HAZARDS IDENTIFICATION

**Classification of the Mixture:** Eye Damage/Irritation - Category 1  
Skin Corrosion/Irritation - Category 1  
Acute Toxicity, Oral - Category 4  
Specific Target Organ Toxicity (Repeated Exposure) - Category 2  
Corrosive to Metals - Category 1

**Label Elements:**

Hazard Pictogram(s):



Signal Word: DANGER

**Hazard Statement(s):** Causes severe skin burns and eye damage.  
Harmful if swallowed.  
May cause damage to organs (kidneys, liver, central nervous system) through prolonged or repeated exposure.  
May be corrosive to metals.

**Precautionary Statement(s):**

**Prevention:** Wear protective gloves, protective clothing, and eye/face protection.  
Wash hands thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Do not breathe fumes or vapours.  
Keep only in original packaging.

**Response:** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a poison centre or physician.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. Immediately call a poison centre or physician.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison centre or physician.  
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.  
Get medical advice/attention if you feel unwell.  
Absorb spillage to prevent material-damage.

**Storage:** Store locked up.  
Store in a corrosion resistant container with a resistant inner liner.

**Disposal:** Dispose of contents/container in accordance with local/regional/national/international regulations.

**Physical/health hazards not otherwise classified:**

There is a marked difference in acute oral toxicity between rodents and man, man being more susceptible than rodents.  
The estimated fatal dose for man is 100 milliliters (1/2 cup).

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Conc.</u>	<u>CAS #</u>	<u>Common Names</u>
ethylene glycol	35.0%	107-21-1	
potassium hydroxide (45%)	22.0%	1310-58-3	caustic potash, lye
tetrasodium salt of ethylene diamine tetraacetic acid (40%)	6.0%	64-02-8	

## 4. FIRST-AID MEASURES

**Necessary Measures**

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a poison centre or physician.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. Immediately call a poison centre or physician.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison centre or physician.  
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.  
Get medical advice/attention if you feel unwell.  
Absorb spillage to prevent material-damage.

**Most important symptoms, both acute and delayed:**

- Causes serious eye damage.
- Causes severe skin burns and eye damage.
- Harmful if swallowed.
- May cause damage to organs (kidneys, liver, central nervous system) through prolonged or repeated exposure.

**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 sulphur dioxide.

**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 eat, drink or smoke when using this product.
- Do not breathe fumes or vapours.
- Keep only in original packaging.
- Do not ingest. Avoid contact with eyes, skin and clothing.

**Conditions for safe storage, including any incompatibilities:**

- Store locked up.
- Store in a corrosion resistant container with a resistant inner liner.
- Keep out of reach of children. Store in a cool, dry area.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters - Exposure limits:**

<u>Ingredient:</u>	<u>Limit:</u>
ethylene glycol	TWA: 100 mg/m3 ACGIH (TLV) CEIL: 125 mg/m3 OSHA (PEL) CEIL: 50 ppm OSHA (PEL)
potassium hydroxide (45%)	ACGIH Ceiling: 2 mg/m3
tetrasodium salt of ethylene diamine	not available
tetraacetic acid (40%)	

**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, protective clothing, and eye/face protection.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance (physical state, colour etc.):</b>	clear, light to dark brown liquid
<b>Odour:</b>	slight ammonia odour
<b>Odour threshold:</b>	not available
<b>pH:</b>	13+
<b>Melting/Freezing point:</b>	not available
<b>Initial boiling point and range:</b>	not available
<b>Flash point:</b>	not applicable
<b>Evaporation rate:</b>	not available
<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>	1.160
<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 / Other

### Hazardous decomposition products:

not available

## 11. TOXICOLOGICAL INFORMATION

### POTENTIAL ACUTE HEALTH EFFECTS

**Inhalation:** Inhalation of mist may cause damage to nasal and respiratory passages. Irritation may lead to chemical pneumonitis and pulmonary edema.

**Ingestion:** Harmful if swallowed.

**Eye contact:** Causes serious eye damage.

**Skin contact:** Causes severe skin burns and eye damage.

**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:

ethylene glycol

potassium hydroxide (45%)

tetrasodium salt of ethylene diamine tetraacetic acid (40%)

#### Data:

Oral LD50: 4700 mg/kg (rat)

Oral LD50: 273 mg/kg (rat)

Oral LD50: 1000 mg/kg (rat)

### Other Toxicological Information on Ingredients:

#### ethylene glycol

There is a marked difference in acute oral toxicity between rodents and man, man being more susceptible than rodents. The estimated fatal dose for man is 100 milliliters (1/2 cup). This material has also been shown to be toxic and potentially lethal by ingestion to cats and dogs.

The substance may be toxic to kidneys, liver, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

## 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:** UN 1760; CORROSIVE LIQUID, N.O.S. (POTASSIUM HYDROXIDE); CLASS 8; PG II

## 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

**Date of Preparation:** February 02, 2017

**Date of Revision:** February 02, 2017

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