

# Safety Data Sheet

## 1. IDENTIFICATION

**Product Identifier:** CTT-598  
**Product Code:** S755  
**Other Name(s):**

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

**Recommended Use and Restrictions on Use:** cooling 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  
Corrosive to Metals - Category 1

**Label Elements:**

Hazard Pictogram(s):



**Signal Word:** DANGER

**Hazard Statement(s):** Causes severe skin burns and eye damage.  
May be corrosive to metals.

**Precautionary Statement(s):**

**Prevention:** Do not breathe dusts or mists.  
Wash hands thoroughly after handling.  
Wear protective gloves, protective clothing, and eye/face protection.  
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.  
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:**  
not applicable

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Conc.</u>	<u>CAS #</u>	<u>Common Names</u>
benzotriazole (>99)	1.8%	95-14-7	
methylene phosphonic acid (50-75%)	13.0%	6419-19-8	
phosphoric acid (75%)	5.5%	7664-38-2	
sulphuric acid	17.0%	7664-93-9	

## 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.  
Absorb spillage to prevent material-damage.

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

Causes serious eye damage.  
Causes severe skin burns and eye damage.

**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 oxides of sodium.

**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:**

Do not breathe dusts or mists.  
Wash hands thoroughly after handling.  
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>
benzotriazole (>99)	not available
methylene phosphonic acid (50-75%)	not available
phosphoric acid (75%)	ACGIH TLV STEL: 3 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>
sulphuric acid	ACGIH TLV-TWA: 0.2 mg/m <sup>3</sup> ; TLV-STEL: 3 mg/m <sup>3</sup>

**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, colourless liquid
<b>Odour:</b>	not available
<b>Odour threshold:</b>	not available
<b>pH:</b>	<1.0
<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>	1.157
<b>Solubility(ies):</b>	100%
<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:**

Reacts with metals

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

not applicable

**Incompatible materials:**

Oxidizers / Base

**Hazardous decomposition products:**

not available

**11. TOXICOLOGICAL INFORMATION****POTENTIAL ACUTE HEALTH EFFECTS**

**Inhalation:** May cause severe irritation to the respiratory tract.

**Ingestion:** May be 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:

benzotriazole (>99)

methylene phosphonic acid (50-75%)

phosphoric acid (75%)

sulphuric acid

Data:

Oral LD50: 560 mg/kg (rat)

Inhalation LC50: 1.4 mg/L 4h (rat)

Oral LD50: 2910 mg/kg (rat)

Oral LD50: 1530 mg/kg (rat)

Dermal LD50: 2740 (rabbit)

Oral LD50: 2140 mg/kg (rat)

**Other Toxicological Information on Ingredients:**

not applicable

**12. ECOLOGICAL INFORMATION**

<b>Ecotoxicity (aquatic and terrestrial, where available):</b>	not available
<b>Persistence and degradability:</b>	not available
<b>Bioaccumulative potential:</b>	not available
<b>Mobility in soil:</b>	not available
<b>Other adverse effects:</b>	not available
<b>Ecological Information on Ingredients:</b>	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. (SULPHURIC ACID, METHYLENEPHOSPHONIC ACID); 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**

<b>Prepared by:</b>	Technical Services Department, Halabi Chemicals Ltd., Ph.: 780-473-2608
<b>Date of Preparation:</b>	February 09, 2017
<b>Date of Revision:</b>	February 09, 2017

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