

# Safety Data Sheet

## 1. IDENTIFICATION

**Product Identifier:** CTT-588  
**Product Code:** S754  
**Other Name(s):**

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

**Recommended Use and Restrictions on Use:** cooling water treatment - compliant with alberta infrastructure regulation

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## 2. HAZARDS IDENTIFICATION

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

**Label Elements:**

**Hazard Pictogram(s):**



**Signal Word:** WARNING

**Hazard Statement(s):** Causes serious eye irritation.  
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.  
If eye irritation persists: Get medical advice.  
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>
benzotriazole (>99)	1.8%	95-14-7	

## 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.  
If eye irritation persists: Get medical advice.  
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 irritation.  
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 oxides of carbon, nitrogen and phosphorus.

**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:

benzotriazole (>99)

Limit:

not available

**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 straw-coloured liquid

**Odour:** a characteristic odour

**Odour threshold:** not available

**pH:** 9.0 - 10.0

**Melting/Freezing point:** not available

**Initial boiling point and range:** not available

**Flash point:** not applicable

**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):** 1.106

**Solubility(ies):** 100%

**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:** May cause respiratory tract irritation.**Ingestion:** May be harmful if swallowed.**Eye contact:** Causes serious eye irritation.**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:

benzotriazole (&gt;99)

Data:

Oral LD50: 560 mg/kg (rat)

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

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

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