

Safety Data Sheet

1. IDENTIFICATION

Product Identifier: NO. 98 COOLING WATER COMPOUND **Date of Revision:** March 09, 2023
Product Code: S755
Other Name(s): not applicable
Distributed By: not applicable
Recommended Use and Restrictions on Use: cooling water treatment
Manufactured By: Ostrem Chemical Co. Ltd. **Phone/Emergency Phone:**
2310 - 80th Avenue NW 780-440-1911
Edmonton, Alberta, Canada T6P 1N2 Mon. - Fri. 8:00am - 4:30pm MT
www.ostrem.com

2. HAZARDS IDENTIFICATION

Classification of the Mixture: Corrosive to Metals - Category 1
Serious Eye Damage/Irritation - Category 1
Skin Corrosion/Irritation - Category 1

Label Elements:

Hazard Pictogram(s):



Signal Word: DANGER

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

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. w/w</u> | <u>CAS #</u> | <u>Common Names</u> |
|------------------------------------|------------------|--------------|---------------------|
| benzotriazole (>99) | 1 - 5% | 95-14-7 | |
| methylene phosphonic acid (50-75%) | 10 - 30% | 6419-19-8 | |
| phosphoric acid (75%) | 5 - 10% | 7664-38-2 | |
| sulphuric acid | 15 - 40% | 7664-93-9 | |

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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:

Ingredient:

benzotriazole (>99)
methylene phosphonic acid (50-75%)
phosphoric acid (75%)

sulphuric acid

Limit:

not available
not available
ACGIH TLV STEL: 3 mg/m³
TWA: 1 mg/m³
ACGIH TLV-TWA: 0.2 mg/m³; TLV-STEL: 3 mg/m³

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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

| | |
|---|--------------------------|
| Appearance (physical state, colour etc.): | clear, colourless liquid |
| Odour: | not available |
| Odour threshold: | not available |
| pH: | <1.0 |
| 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): | 1.157 |
| 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:

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 |

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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)

Inhalation LC50: 160 mg/L 4h (mouse)

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: 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

Prepared by: Technical Services Department, Ostrem Chemical Co. Ltd., Ph.: 780-440-1911

Date of Preparation: March 09, 2023

Date of Revision: March 09, 2023

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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