

# Safety Data Sheet

## 1. IDENTIFICATION

**Product Identifier:** NO. 49 FILMING STEAM BOILER COMPOUND **Date of Revision:** June 22, 2023  
**Product Code:** S793  
**Other Name(s):** not applicable  
**Distributed By:** not applicable  
**Recommended Use and Restrictions on Use:** not available  
**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:** Acute Toxicity, Oral - Category 4  
Corrosive to Metals - Category 1  
Serious Eye Damage/Irritation - Category 1  
Flammable Liquids - Category 3  
Skin Corrosion/Irritation - Category 1

**Label Elements:**

Hazard Pictogram(s):



Signal Word: DANGER

**Hazard Statement(s):** Harmful if swallowed.  
May be corrosive to metals.  
Causes serious eye damage.  
Flammable liquid and vapour.  
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.  
Do not eat, drink or smoke when using this product.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
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 well-ventilated place. Keep cool.  
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

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<u>Chemical Name</u>	<u>Conc. w/w</u>	<u>CAS #</u>	<u>Common Names</u>
coco diethanolamide (60-100)	1 - 5%	68603-42-9	
cyclohexylamine	10 - 30%	108-91-8	
morpholine	5 - 10%	110-91-8	

## 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.
- Absorb spillage to prevent material-damage.

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

- Harmful if swallowed.
- 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):

not available

### 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.
- Do not eat, drink or smoke when using this product.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- 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 well-ventilated place. Keep cool.
- Store in a corrosion resistant container with a resistant inner liner.
- Keep out of reach of children. Store in a cool, dry area.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters - Exposure limits:

Ingredient:

coco diethanolamide (60-100)  
cyclohexylamine  
morpholine

Limit:

not available  
OSHA TWA: 10 ppm/41 mg/m<sup>3</sup>  
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, protective clothing, and eye/face protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, colour etc.):	yellow liquid
Odour:	not available
Odour threshold:	not available
pH:	12
Melting/Freezing point:	not available
Initial boiling point and range:	not available
Flash point:	27C
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):	0.987
Solubility(ies):	not available
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):

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### 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.

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**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:

coco diethanolamide (60-100)  
cyclohexylamine

morpholine

### Data:

not available  
Oral LD50: 11 mg/kg (rat)  
Dermal LD50: 277 mg/kg (rabbit)  
Inhalation LC50: 7.5 mg/L (rat)  
Oral LD50: 1900 mg/kg (rat)  
Dermal LD50: 500 mg/kg (rabbit)

## 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 2920; CORROSIVE LIQUID, FLAMMABLE, N.O.S. (CYCLOHEXYLAMINE, MORPHOLINE); CLASS 8 (3); 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:** June 22, 2023

**Date of Revision:** June 22, 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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