## Safety Data Sheet

## **1.IDENTIFICATION**

Product Identifier: SBT-445 S748 Product Code: Other Name(s):

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

**Distributed By:** Halabi Chemicals Ltd. 127 Ozerna Rd. NW Edmonton, Alberta, Canada T5Z 2Z4 www.halabichemicals.ca

#### 2. HAZARDS IDENTIFICATION

## **Classification of the Mixture:**

Skin Corrosion/Irritation - Category 1 Acute Toxicity, Oral - Category 3 Flammable Liquids - Category 3

DANGER

Label Elements: Hazard Pictogram(s):

Signal Word:

Ρ



Causes severe skin burns and eye damage.

Eye Damage/Irritation - Category 1

# Toxic if swallowed.

Hazard Statement(s):

	Toxic il Swallowed.
	Flammable liquid and vapour.
Precautionary Stat	ement(s):
Prevention:	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. Wear protective gloves, protective clothing, and eye/face protection.
Response:	<ul> <li>IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a poison centre or physician.</li> <li>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.</li> <li>IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison centre or physician.</li> <li>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.</li> </ul>
Storage:	Store locked up. Store in a well-ventilated place. Keep cool.

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**

Chemical Name	Conc.	CAS #	Common Names
cyclohexylamine	10.0%	108-91-8	
morpholine	5.0%	110-91-8	

## 4. FIRST-AIDMEASURES

#### **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.

## Most important symptoms, both acute and delayed:

Causes serious eye damage. Causes severe skin burns and eye damage. Toxic if swallowed.

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

Phone: 780-473-2608 In Case of Emergency Only, Phone CANUTEC: 613-996-6666

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 nitrogen oxides.

#### 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.

ppm/41 mg/m3

#### 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. 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.

Keep out of reach of children. Store in a cool, dry area.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters - Exposure limits:		
Ingredient:	Limit:	
cyclohexylamine	OSHA TWA: 10	

eyelenexylanine	
morpholine	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

clear, pale liquid amine odour not available alkaline not available not available s5 C not available not available not available 0.987 complete not available not available
not available 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, Oxidizers / Acid / Other

Hazardous decomposition products:

not available

## **11.TOXICOLOGICAL INFORMATION**

## POTENTIAL ACUTE HEALTH EFFECTS

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 lung damage.			
Ingestion:	Toxic if swallowed.			
Eye contact:	Causes serious eye damage.			
Skin contact:	Causes severe skin burns and eye damage.			
Skin absorption:	not available			
POTENTIAL CHRO	NIC 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 toxic	ity:	This information, if applicable, can be found in Section 2.		
Sensitization of pro	duct:	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 Org	an Toxicity - repeated exposure:	This information, if applicable, can be found in Section 2.		
Toxicological Data:				
Ingredient:		<u>Data:</u>		
cyclohexylamine		Oral LD50: 11 mg/kg (rat)		
		Dermal LD50: 277 mg/kg (rabbit)		
		Inhalation LC50: 7.5 mg/L (rat)		
morpholine		Oral LD50: 1900 mg/kg (rat)		
		Dermal LD50: 500 mg/kg (rabbit)		
Other Toxicologica not applicable	I Information on Ingredients:			

# 12. ECOLOGICAL INFORMATION

Ecotoxicity (aquatic and terrestrial, where available): Persistence and degradability: Bioaccumulative potential: Mobility in soil: Other adverse effects:	not available not available not available not available not available 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, Halabi Chemicals Ltd., Ph.: 780-473-2608

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

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