

**SAFETY DATA SHEET** 

	SECTION 1 :	IDENTIFICATION	
Product Name: N	IEUTRAMINE M		
Product Use: S	team Boiler Treatment		
Address: 33 Melfor	y Solutions d Drive, Unit 5, ugh, Ontario. M1B 2G6	Phone: Fax: Poison Control Centre:	416-757-1333 416-757-9793 1-800-268-9017
	SECTION 2: HAZ	ARD IDENTIFICATION	
Category 3: Ac Category 4: Ac Category 1B: St	ammable liquid cute toxicity, dermal cute toxicity, inhalation kin corrosion erious eye damage		
Signal Word: D	ANGER		
Pictogram:			
Hazard Statements:			
H302: Harmful if H311: Toxic in co H314: Causes se H318: Causes se H335: May causes	ontact with skin evere skin burns and eye damage erious eye damage e respiratory irritation		
Precautionary Statements P202: Do not har	<b>s:</b> ndle until all safety precautions ha	ve been read and understood	
P280: Wear prote P210: Keep away P243: Take prec P270: Do not eat P233: Keep cont P234: Keep only P260: Do not bre	ective gloves/protective clothing/fa	ace protection. open flames and other ignition sources. No discharge.	o smoking.
<b>Response Statements:</b>	3, 3		
P301+P330+P331+P310		outh. DO NOT INDUCE VOMITING. Imme	ediately call a
P303+P361+P353+P310	POISON CENTER/doctor. IF ON SKIN (or hair): Rem	ove immediately all contaminated clothing.	Rinse skin with
P304+P340+P310	water. Immediately call a F IF INHALED: Remove victi		
P305+P351+P338+P310	present and easy to do. Co	sly with water for several minutes. Remove ntinue rinsing. Immediately call a POISON	
P363:	Wash contaminated clothin	ng before reuse.	
Storage: P405: Neutramine M403 + P2	Store locked up. 35: Store in a well-ventilated pl	ace. Keep cool.	Page 1 of 4

Disposal: P501: Dispose of container according to all applicable regulations. SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS COMPONENTS CAS NO. EC No. CONCENTRATION (wt/wt %) Morpholine 110-91-8 10.0 - 30.0 **SECTION 4 : FIRST AID MEASURES** Wash with copious amounts of water for at least 20 minutes keeping eyelids open. If irritation persists, EYES: repeat flushing. Get immediate medical attention. SKIN: Immediately wash the affected areas with plenty of water. If irritation persists, obtain medical attention. Remove person to fresh air and keep comfortable for breathing. Seek medical attention immediately. INHALATION: Do not attempt to give anything by mouth to an unconscious person. If person is alert and not convulsing, INGESTION: rinse mouth out and give 1-2 glasses of water to dilute material and seek medical attention immediately. DO NOT INDUCE VOMITING. Most important symptoms and effects, both acute and delayed Nausea, vomiting, burning pain and severe corrosive skin damage. Causes serious eve damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation, coughing. **General Information** If exposed or concerned, get medical advice/attention. Ensure that medical personnel are aware of the materials involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. **SECTION 5 : FIRE FIGHTING MEASURES** Flammability: Combustible liquid. Suitable Extinguishing Media: Use extinguishing media suitable for surrounding materials. The product is combustible, and heating may generate vapors which may form Specific Hazards Arising from the Chemical: explosive vapor/air mixtures. During fire, gases hazardous to health may be formed. **Special Protective Equipment and Precautions for Fire-fighters:** Self contained breathing apparatus and protective clothing should be worn in fighting all fires involving chemicals. **SECTION 6 : ACCIDENTAL RELEASE MEASURES** Personal Precautions, Protective Equipment and Emergency Procedures: Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Eliminate all

ignition sources. Avoid contact with skin, eyes and inhalation of vapors. **Environmental Precautions:** 

Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, or confined areas. Do not flush into surface water or sanitary sewer system.

### Methods and Materials for Containment and Cleaning Up:

Soak up with an inert and non-combustible absorbent material (e.g. sand, vermiculite, earth). Keep in suitable, closed containers for disposal. Dispose of according to local, provincial and federal regulations.

## **SECTION 7 : HANDLING AND STORAGE**

### Precautions for Safe Handling:

Use normal good industrial hygiene and safety practices. Use recommended safety equipment when handling. Keep away from open flames, hot surfaces and sources of ignition. Do not breathe mist or vapor. Do not get this material into contact with eyes. Do not get this material into contact with skin. Wash thoroughly after handling.

#### Conditions for Safe Storage:

Avoid storage at high temperatures and protect from freezing. Store in a well-ventilated place. Store away from incompatibles. Keep away from heat, sparks and open flame. Keep containers closed when not in use.

# SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

COMPONENTS	CAS NO.	ACGIH TLV	OSHA PEL	NIOSH IDLH
Morpholine	110-91-8	20 ppm TWA	20 ppm TWA 970 mg/m3)	1400 ppm

#### Legend

ACGIH NAuteriniane@onference of Governmental Industrial Hygienists

#### **Appropriate Engineering Controls:**

Ensure adequate ventilation, especially in confined areas.

#### **Individual Protection Measures:**

**Eyes:** Chemical safety goggles/faceshield.

**Skin:** Chemical resistant gloves and appropriate protective clothing.

**Respiratory:** Approved NIOSH respiratory protection if TLV/PEL is exceeded or if over exposure is likely.

Work Hygienic Practices:

Facilities storing or using this material should be equipped with emergency eyewash and a safety shower. Good personal and industrial hygiene and safety practices should always be followed.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Colour:Clear and colourlessOdour :Strong Amine odour.Odour Threshold:No information availablepH:9.5 - 10.5Specific Gravity (water = 1) :1.00 - 1.05Melting point/Freezing point:No information availableBoiling point:No information availableFlammability:Flammable liquid and vapourUpper Explosive Limit:No information availableLower Explosive Limit:No information availableFlash Point:No information availableAuto-ignition Temperature:No information availableViscosity:No information availableVapour Pressure (mm Hg) :No information availableVapour Density (air = 1) :No information availableSolubility in Water :No information availablePartition Coefficient n-Octanol/Water:No information available	Physical State:	Liquid
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# SECTION 10: STABILITY AND REACTIVITY

Reactivity:	The product is stable and non-reactive under normal usage, storage and transport.
Chemical Stability:	Stable under normal conditions.
Possibility of Hazardous Reactions:	Hazardous polymerization does not occur.
Conditions to Avoid:	Avoid heat, sparks, open flames and other ignition sources, and contact with
Incompatible Materials:	Strong acids and oxidizers.
Hazardous Decomposition Products:	Oxides of carbon and nitrogen evolved in fire.

# SECTION 11: TOXICOLOGICAL INFORMATION

Primary route of exposure: Skin corrosion/Irritation: Serious eye damage/irritation:	Eye contact, skin contact, ingestion and inhalation. Causes severe skin burns. Causes serious eye damage.
Respiratory or skin sensitization:	This product is not expected to cause respiratory nor skin sensitization.
Germ cell mutagenicity: Carcinogenicity:	No information available. The ingredients of this product are not classified as carcinogens by ACGIT of IARC, not regulated as carcinogen by OSHA, and not listed as carcinogen by NTP.
Reproductive toxicity:	No information available.
STOT-single exposure:	No information available.
STOT-repeated exposure:	No information available.
Aspiration hazard:	No information available.

COMPONENT	CAS No.	ORAL LD <sub>50</sub>	DERMAL LD <sub>50</sub>	INHALATION LC <sub>50</sub>		
Morpholine	110-91-8	1050 mg/kg (Rat)	310 mg/kg (Rabbit)	8000 ppm (rat) 8 h		
	SECTION 12 : ECOLOGICAL INFORMATION					
COMPONENT CAS No. Freshwater Algae Freshwater Fish Water Flea						
Morpholine	110-91-8	EC <sub>50</sub> : = 28 mg/L, 96h static (Pseudokirchneriella subcapitata)	LC <sub>50</sub> : 375 - 460 mg/L, 96h (Oncorhynchus mykiss)	EC <sub>50</sub> : = 100 mg/L, 24h (Daphnia magna)		
Toxicity: Persistence and degradability: Bioaccumulative potential: Mobility in soil: Other adverse effects:	No information available. Soluble in water. Persistence is unlikely based on information available. No information available. Will likely be mobile in the environment due to its water solubility. No information available.					
SECTION 13 : DISPOSAL CONSIDERATIONS						
Waste disposal of substance:Dispose of in accordance with national, state/provincial and regional regulations.Container disposal:Dispose of in accordance with national, state/provincial and regional regulations.						
SECTION 14 : TRANSPORT INFORMATION						
T.D.G./D.O.T. Classification:						
Shinning Name:						

ompping Name.				
UN Number:	2357	Class:	8	Packing Group:

## SECTION 15: REGULATORY INFORMATION

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WHMIS Classification:



Class B3: Combustible Liquid

Class D1: Material Causing Immediate & Serious Toxic Effects

Class D2: Material Causing Other Toxic Effects

Class E: Corrosive

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulation (HPR), Hazard Communication Rule (2012), Regulation (EC) No 1907/2006

## SECTION 16: OTHER INFORMATION

### **Preparation Information:**

Latest Revision	Date:	26-Apr-2019	Issue Date:	18-Jan-2019
Version No.	1.01		Supercedes:	
<b>Revision Notes:</b>		This document has been and Labeling of Chemical		ly Harmonized System of Classification
Prepared By:	Regulate	orv Affairs.		

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