

# VOLAMINE MCD

## MATERIAL SAFETY DATA SHEET

Last Revised Date : November 9, 1993

For Assistance, Contact : Barclay Chemical Company, Inc

150 Coolidge Avenue, Watertown, MA 02172

Emergency Telephone : 617-926-3400

### I. PRODUCT IDENTIFICATION

Name : VOLAMINE MCD

CAS No. : NA

Formula : NA

Chemical Name : NA

Chemical Family : Boiler Water Treatment

### II. INGREDIENTS

#### MORPHOLINE

PCT : < 20

SARA : Not Listed

Hazard : CORROSIVE

CAS No. : 110-91-8

TLV : 20 ppm

PEL : 20 ppm

#### CYCLOHEXYLAMINE

PCT : < 20

SARA : Listed

Hazard : CORROSIVE

CAS No. : 106-91-8

TLV : 10 ppm

PEL : ND

#### DIETHYLAMINOETHANOL

PCT : < 20

SARA : Not Listed

Hazard : CORROSIVE

CAS No. : 100-37-8

TLV : 10 ppm

PEL : 10 ppm

This product contains no other ingredients considered hazardous to the criteria of 29 CFR 1910.1200 and the Massachusetts Right-To-Know Law.

### III. PHYSICAL DATA

State : Liquid

Odor : Amine

Melting Point : NA

Specific Gravity : 0.9

Appearance : Clear

Boiling Point : 210 F

pH : 12

Evaporation Rate : ND

Vapor Pressure : ND

### METAL CORROSIVITY:

Aluminum : Corrosive

SOLUBILITY:

Acid : 100 %

Stability : Stable

Steel : Corrosive

Water : 100 %

Other : ND

Storage Precautions : Keep away from extremely hot temperatures and open flame. Keep container lid closed after use.

### IV. FIRE, EXPLOSION HAZARD and REACTIVITY DATA

Flash Point : 160 F

Method : Tag C.C.

#### FLAMMABILITY LIMITS :

Lower : NA

Upper : NA

Shock Sensitivity : NA

Autoignition Point : None

Oxidizer : No

Fire/Explosion Hazards : NA

Extinguishing Media : Water spray, carbon dioxide, or dry chemical.

Susceptibility to Spontaneous Heating : NA

Hazardous Decomposition Products : Burning can produce carbon monoxide and nitrogen oxides.

#### NFPA/HMIS CODES :

Health : 2

Flammability : 1

Reactivity : 0

Conditions to Avoid : Strong acids and strong oxidizing agents. Do not use in system where this product may mix with nitrite compounds to form nitrosamines.

### V. HEALTH HAZARD DATA

This Product may cause irritation, nausea and vomiting when inhaled or ingested. Can cause irritation and burns to eyes and skin.

Acute Toxicity : Burns and irritation to eyes and skin. Nausea and abdominal pain.

Routes of Exposure : eye, skin contact, inhalation, ingestion

Target Organs : eyes, skin

Chronic Toxicity : none identified

Routes of Exposure : none identified

Target Organs : None identified.

Carcinogen, Mutagen, Teratogen Data : NA

Routes of Exposure : NA

Target Organs : NA

OSHA Regulated : NO

Massachusetts Substance List : NO

IARC Monographs : NO

Overexposure : may cause irritation and burns to eyes and skin. Nausea and vomiting.

Medical Conditions Aggravated by Exposure : None identified

### VI. PRECAUTIONARY MEASURES

Avoid contact with eyes and skin. Avoid breathing fumes, dust or mist.

Wash hands and clothes thoroughly after handling.

Protective Equipment : Work area should be well ventilated. Use respirator with filter for dust and organic fumes. Splash-proof goggles, eye-wash nearby, rubber gloves.

**KEEP OUT OF REACH OF CHILDREN**

### VII. FIRST AID

Inhalation : Remove to fresh air.

Eye & Skin Contact : Immediately flush eyes or skin with plenty of water for at least 15 minutes. Hold eyelids open to ensure complete rinsing of eye. Call a physician.

Ingestion : Promptly drink large quantities of milk, egg whites or gelatin solution. If not available, drink a large quantity of water. Call physician.

### VIII. SPILL and DISPOSAL PROCEDURES

In case of Spills or Release : Recover and pump to container or soak up on inert absorbent. TOXIC TO FISH. Avoid discharge to natural waters.

Consult state and local authorities for restrictions on disposal of chemical waste. Rinse container thoroughly before discarding.

**DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.**

### IX. TRANSPORTATION DATA

D.O.T. Proper Shipping Name : CORROSIVE MATERIAL N.O.S.

Hazard Class : Corrosive

ID No. : UN 1760

### X. SARA

This product does not contain a chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR. However, cyclohexylamine is subject to the requirements of SARA Subsection 304. Cyclohexylamine has a Threshold Planning Quantity 10,000 lbs and a Reportable Quantity of 1 lb.

**For CHEMICAL EMERGENCY  
Spill, Leak, Fire, Exposure or Accident  
CALL CHEMTREC - DAY or NIGHT  
1-800-424-9300**