

SR-385

MATERIAL SAFETY DATA SHEET

HAZARD RATINGS

HEALTH _____ 2 _____
 FLAMMABILITY 1 _____
 REACTIVITY _____

PERSONAL PROTECTION:

***NOTICE: Judgment may be based on indirect test and technical literature. The OSHA Hazard Communication Standard only requires MSDS's and special labeling for materials defined as "HAZARDOUS"; see 29 CFR 1910.1200 (c). This document may be about a product which is NOT hazardous but is provided as information for our customers. See references for information.**

SECTION I.

Product Identifier: **SR-385**
 Product VOC: 30g/lit
 Prepared for: **Charter Chemical, Inc.**
 P.O. Box 450412
 Atlanta, GA 30345

PRODUCT IDENTIFICATION

Product Identification #(PIF): 583
 Prepared by: T. W. Smoot
 Date Prepared: July 31, 1999
 Emergency Telephone #: 1-800-255-3924
 General Information #: 770-466-1035

SECTION II.

HAZARDOUS INGREDIENTS

	CAS #	OSHA/PEL	TLV	STEL	max. %
Morpholine	110-91-8	10 ppm	5 ppm	20ppm	10
Dietholaminoethanol	100-37-8	10 ppm	5 ppm	ND	10
Cyclohexylamine	108-91-8	20 ppm	10ppm	ND	10

SECTION III.

PHYSICAL DATA

Boiling Point	100 C	pH, neat	12.5
Specific Gravity (H2O=1)	0.99	Solubility	soluble
Vapor Density	ND	Evaporation Rate as water	
Vapor Pressure MMHg@20°C	ND		
Percent Volatile	100		

Appearance/odor: Clear/ amine fishy odor

SECTION IV.

HEALTH HAZARD INFORMATION

.....PRIMARY ROUTES OF ENTRY: X SKIN, EYES, X INHALATION, ___ INGESTION

Effects of overexposure:

- ♣ Eye Contact: may cause permanent injury; irritant.
- ♣ Skin Contact: Corrosive to skin.; dermatitis and burning
- ♣ Inhalation: May cause irritation to mucose membrane, dizziness, nausea, headache, discomfort if concentrated fumes. az.
- ♣ Ingestion: Sever gastrointestinal tract upset, ulceration, and hemorrhage may occur..

SECTION V.

EMERGENCY FIRST AID

- ♣ *Eyes:* Flush well with water for at least 15 minutes.
- ♣ *Skin:* Wash with soap and water.
- ♣ *Inhalation:* Move to fresh air.
- ♣ *Ingestion:* Drink lots of water to dilute, **DO NOT INDUCE VOMITING.** Get medical help. MORE

SECTION VI.

FIRE AND EXPLOSION DATA

Flammability: combustible
 Means of extinction: Water spray, dry chemicals, CO₂.
 Flash Point: over 120°F
 Upper Flammability Limit (% by volume): ND
 Lower Flammability Limit (% by volume): ND
 Autoignition Temperature: NA
 Hazardous combustion products: CO, CO², NOx
 ♦ Explosion Data: Sensitivity to impact: NA Sensitivity to static discharge: NA

SECTION VII.

REACTIVITY DATA

Chemical stability: stable Reactivity, and under what conditions?
 Incompatibility with other substances: Oxidizers and mineral acids Hazardous decomposition products: CO, CO₂, NOx

SECTION VIII.

HANDLING AND STORAGE

Keep container closed, when not in use.

SECTION IX. EXPOSURE CONTROL/PERSONAL PROTECTION

Personal protective equipment: Use rubber gloves and eye protection.

Gloves (specify): Chemical resistant gloves

Respirator (specify): If in closed area.

Eye (specify): Chemical resistant eye ware

Footwear(specify): Chemical resistant shoes

Clothing (specify): NA

Other: NONE

♦ Engineering controls (specify, E.G., ventilation, enclosed process): Adequate ventiation

SECTION X. SPECIAL PRECAUTIONS/OTHER COMMENTS

Have eye wash station in area of use.

SECTION XI. TOXICOLOGICAL INFORMATION

♦ Effects of acute exposure to product: Animal studies on concentrated morpholine show liver, kidney and lung damage.

♦ Effects of chronic exposure to product: Can result in irritation to eyes and redness to skin.

SECTION XII. ECOLOGICAL INFORMATION

NOT DETERMINED.....

SECTION XIII. ACCIDENTAL RELEASE MEASURES/ DISPOSAL INFORMATION

Large spills cannot occur because of packaging. Sweep up any material spilled from broken container and re-containerize for possible reuse. If not reusable, dispose of according to regulations. Wash residual area with water to drain according to local, state and federal regulations. Do not release to open, public waters.

SECTION XIV. TRANSPORT INFORMATION

Hazardous according to Table 49 CFR 172.101: **CORROSIVE LIQUID, (Morpholine),**

SECTION XV. REGULATORY INFORMATION

SARA TITLE II REPORTING REQUIREMENTS

SECTION 302: Not listed

SECTION 311: Not listed

SECTION 312: Not listed

SECTION 313: Not listed

CERCLA: yes; 50,000 pounds

RCRA: over 50,000 pounds MORE

SECTION XVI. ADDITIONAL INFORMATION

NONE.....

The information contained herein is based on data available to us and is believed to be correct. We make no warranty, however, expressed or implied regarding the accuracy of these data or the results obtained from the use thereof.

Regulatory Standards: DOT TITLE 49, Code of Federal Regulations 172.101: Parts 100 to 177, Revised 10/1/92.
SUPER FUND AMENDMENTS REAUTHORIZATION ACT OF 1986, TITLE III TOXIC SUBSTANCE CONTROL ACT LIST (TSCA)-
INGREDIENTS LISTED. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES NATIONAL TOXICOLOGICAL PROGRAM (NTP)
REPORT OF CARCINOGENS INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) MONOGRAPHS, OCCUPATIONAL SAFETY &
HEALTH REGULATIONS. CODE OF FED. REGS. FOOD & DRUG, 21 PARTS 170 to 199, Revised 4/1/91, 173.310.