

# MATERIAL SAFETY DATA SHEET

Manufactured by:

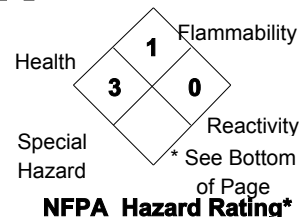


**Anderson  
Chemical Company**

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LITCHFIELD, MINNESOTA 55355  
(320) 693-2477

**Product  
Name: SL-3020**

Health 3  
Flammability 1  
Reactivity 0  
Personal Protection X  
HMIS Rating System\*



**24-HOUR EMERGENCY PHONE #: 1-800-424-9300 (CHEMTREC)**

Revised: 2/17/2009

lmt

Supersedes: 12/3/2004

## I. IDENTIFICATION

### Chemical Name And Synonyms:

Not applicable.

### DOT Shipping Name

Corrosive liquids, N.O.S. (Morpholine)

### Chemical Family:

Amine.

### DOT Hazard Class & I.D. Number

Corrosive Material UN1760

# PG

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## II. HAZARDOUS INGREDIENTS

Component	CAS NO.	%	TLV	PEL	Toxic	Hazard
Morpholine	110-91-8	20	20 ppm	20 ppm	NA	Flammable. Corrosive to skin and eyes.

\*\*Toxic chemical subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR §372).

NA: Not applicable

NE: Not established

## III. PHYSICAL DATA

**Boiling Point:** Above 212° F.  
**Specific Gravity:** 0.996  
**Appearance:** Clear, colorless liquid.

**Form:** Liquid.  
**Solubility In Water:** Complete.  
**Odor:** Slight ammoniacal odor.

**pH, 1% Soln.:** 11.2

## IV. FIRE AND EXPLOSION HAZARD DATA

**Flashpoint:** >200°F

**Extinguishing Media:** Water spray, carbon dioxide, dry chemicals.

**Special Fire Fighting Procedures:** If a fire occurs in the near vicinity, good firefighting practice dictates the use of self-contained breathing apparatus and other protective gear.

**Unusual Fire And Explosion Hazards:** If the container breaks, the solution should be handled with care as it is corrosive.

## V. HEALTH HAZARD DATA

**Carcinogenic:** The raw materials used in this product are not considered to be a carcinogen by IARC, NPT, ACGIH and OSHA.

**Effects Of Over-exposure:** Causes eye irritation, possibly a burn with pain, excess blinking, redness, swelling, and tear production. May cause permanent eye damage. Causes severe skin irritation with pain, redness, and swelling. May cause burns with blister formation. Vapor or mist inhalation may cause irritation including coughing and discomfort in nose and throat. Prolonged or repeated overexposure may result in lung damage. Ingestion causes burns of the mouth, throat, and stomach with abdominal pain, nausea, vomiting, diarrhea, thirst, weakness and collapse.

**Emergency And First Eyes:** Immediately flush with water for 15 minutes. Raise eyelids for complete rinsing. *Get immediate medical attention.*

**Aid Procedures: Skin:** Immediately flush with water for 15 minutes. *Get medical attention* if irritation persists. Wash all contaminated clothing before reuse.

**Inhalation:** Move person to fresh air. If breathing stops, administer artificial respiration. If breathing is difficult, have a trained person administer oxygen. Get immediate medical attention.

**Ingestion:** Rinse mouth with water. Give water to dilute. Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to a semicomatose, comatose, convulsing or unconscious person.

\* NFPA/HMIS Degree or Hazard: 4 = Extreme; 3 = High; 2 = Moderate; 1 = Slight; 0 = Insignificant.

*Continued On Back*

HMIS A. Safety Glasses B. Safety Glasses, Gloves C. Safety Glasses, Gloves, Apron D. Face Shield, Gloves, Apron E. Safety Glasses, Gloves, Dust Respirator F. Safety Glasses, Gloves, Apron, Dust Respirator G. Safety Glasses, Gloves, Vapor Respirator H. Splash Goggles, Gloves, Apron, Vapor Respirator I. Safety Glasses, Gloves, Vapor and Dust Respirator J. Splash Goggles, Gloves, Apron, Vapor and Dust Respirator K. Air Line, Hood or Mask, Gloves, Full Suit, Boots X. Ask your supervisor for guidance.

## VI. REACTIVITY DATA

**Stability - Unstable:**

**Stable:** x

**Conditions To Avoid:** Not applicable

**Incompatibility:** Oxidizing agents, strong acids, (organic and inorganic), strong alkalis. Mixing with nitrites will form nitrosamines which are (Materials to Avoid) considered to be powerful cancer causing agents.

**Hazardous Decomposition Products:** Thermal decomposition may produce nitrogen oxides, carbon monoxide and/or carbon dioxide. Mixture with nitrites will form nitrosamines which are dangerous cancer causing agents.

## VII. SPILL OR LEAK PROCEDURES

### Steps To Be Taken In Case Material Is Released Or Spilled:

Eliminate all ignition sources. Wear appropriate personal protective equipment. Contain spill, ventilate area, avoid breathing vapor. Avoid personal contact. Remove with inert absorbent materials. Use non-sparking tools.

**Waste Disposal Method:** Dispose in approved chemical disposal area or in a manner which complies with all local state, and federal regulations.

## VIII. SPECIAL PROTECTION INFORMATION

**Respiratory Protection:** Approved respirator for temporary or emergency protection. Self-contained breathing apparatus for firefighting or confined space exposure.

**Ventilation:** Adequate general or local exhaust.

**Protective Gloves:** Impervious gloves.

**Eye Protection:** Safety goggles, face shield.

**Protective Clothing:** Skin contact should be prevented through use of suitable protective clothing, gloves and footwear selected with regard for use conditions.

## IX. SPECIAL PRECAUTIONS

### Precautions To Be Taken In Handling And Storing:

Keep away from heat, sparks, flames. Avoid any contact with skin or eyes. Wash thoroughly after handling. Keep cover on when not being used.

**Other Precautions** Eye wash stations and safety showers should be provided in work area.

## X. REVISED INFORMATION

**MSDS Status:** pH change