

**MATERIAL SAFETY DATA SHEET
THE CORTEC CORPORATION
4119 WHITE BEAR PARKWAY
ST. PAUL, MINNESOTA 55110
PHONE: 651-429-1100 OR TOLL FREE 1-800-4-CORTEC
FAX: 651-429-1122**

EMERGENCY PHONE NO.: CHEMTREC (FOR SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT): 1-800-424-9300 (DAY OR NIGHT)

***** M-380 *****

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: **M-380**
PRODUCT DESCRIPTION: A proprietary mixture of corrosion inhibitors.

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT NAME(S)	WEIGHT (%)	OCCUPATIONAL EXPOSURE LIMITS	
		TLV or PEL	ORAL LD-50
Ammonia	17-22	25 ppm	350 mg/kg
Trade secret	8-12	5 mg/m ³ (Dried form only)	

Carcinogenic: OSHA = no NTP = no IARC = no

SECTION III - PHYSICAL DATA

COLOR: Hazy to opaque off-white
PHYSICAL FORM: Viscous liquid
NON-VOLATILE (weight): N.E. VAPOR DENSITY: N.E.
pH: 10-12 (Neat) VAPOR PRESSURE: N.E.
BOILING RANGE: N.E. MELTING RANGE: N.A.
ODOR: Strong ammonia
DENSITY: 9.9-10.2 lb/gal (1.19-1.22 kg/l)
EVAPORATION RATE: Same as water

SECTION IV - FIRE AND EXPLOSION DATA

HMS FLAMMABILITY RATING: 0
FLASH POINT: None
FLAMMABLE LIMITS: LEL: N.E. UEL: N.E.
EXTINGUISHING MEDIA: Foam, carbon dioxide, water fog, or dry chemicals.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Cool, corrosive material, container may burst in heat or fire.
SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear self-contained breathing apparatus.

SECTION V - HEALTH HAZARD DATA

EMERGENCY AND FIRST AID PROCEDURES:
Eye Contact: Flush eyes with water for at least 15-20 minutes. Seek immediate medical attention.
Skin Contact: Remove contaminated clothing. Wash immediately with water for 15-20 minutes. Seek immediate medical attention.
Inhalation: Remove to an uncontaminated area. Get medical attention.
Ingestion: Rinse mouth immediately. Drink 1-2 glasses of water or milk. Do not induce vomiting. Seek medical attention.
MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: None known.

PRIMARY ROUTES OF ENTRY: Inhalation, skin contact, eye contact.

HEALTH HAZARDS (acute and chronic) / EFFECTS OF OVEREXPOSURE:

1. Eye contact with this product may cause moderate to severe eye irritation.
2. Repeated or prolonged skin contact with this product may product mild, reversible skin irritation.

3. Inhalation of product vapors and/or particle mists resulting from the use of this product may cause local irritation, dizziness, and nausea.
4. Ingestion of this product may cause gastrointestinal irritation, diarrhea, vomiting and nausea.

SECTION VI - REACTIVITY DATA

STABILITY: Stable.
HAZARDOUS POLYMERIZATION: Will not occur
HAZARDOUS DECOMPOSITION PRODUCTS: None.
INCOMPATIBILITY: Strong acids. Do not mix with other chemicals unless specified on the label.
CONDITIONS TO AVOID: Contact with incompatible materials.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Absorb on inert material. Sweep or scrape up into a container. Rinse area with water. Do not let material enter water stream. WASTE DISPOSAL: Dispose of in accordance with existing Federal, State and Local environmental regulations.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: A NIOSH approved dust/mist respirator is recommended if ventilation is not adequate.
PROTECTIVE GLOVES: Rubber gloves.
EYE PROTECTION: Safety goggles.
OTHER PROTECTIVE EQUIPMENT: None

SECTION IX - SPECIAL PRECAUTIONS AND STORAGE DATA

PRECAUTIONS TO BE TAKEN IN HANDLING: Avoid contact with eyes and breathing spray mist or vapors. Avoid prolonged skin contact.
PRECAUTIONS TO BE TAKEN IN STORING: Wash thoroughly after handling. Keep from freezing.

SECTION X - SHIPPING DATA

DOT/IMDG/IATA SHIPPING NAME: Ammonia solution
UN/NA NUMBER: 2672
DOT/IMDG/IATA HAZARD CLASS.: 8 (Pg. III)
T.S.C.A. STATUS: Listed
DOT/IMDG/IATA REQUIRED LABELS: Corrosive
TECHNICAL SHIPPING NAME: N.A.

PREPARED BY: Mike Prenosil, Coatings Specialist
APPROVED BY: Christophe Chandler, Lab Director
DATE PREPARED: 2/9/00 SUPERSEDES: 8/25/98

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N.E. = NOT ESTABLISHED N.A. = NOT APPLICABLE