

MATERIAL SAFETY DATA SHEET
THE CORTEC CORPORATION
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PHONE: 651-429-1100 OR TOLL FREE 1-800-4-CORTEC
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EMERGENCY PHONE NO.: CHEMTREC (FOR SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT): 1-800-424-9300 (DAY OR NIGHT)

***** VpCl[®]-347 *****

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: **VpCl[®]-347**
 PRODUCT DESCRIPTION: A proprietary mixture of petroleum-based corrosion inhibitors.

SECTION II - HAZARDOUS INGREDIENTS

| INGREDIENT NAME(S) | WEIGHT PERCENT | OCCUPATIONAL EXPOSURE LIMITS | |
|-----------------------------------|----------------|-------------------------------|------------|
| | | TLV OR PEL | ORAL LD-50 |
| Severely hydrotreated mineral oil | 36-39 | 5mg/m ³ (oil mist) | N.E. |
| Trimethylbenzene | 4-6 | 125 mg/m ³ 25 ppm | 5000 mg/kg |

Carcinogenic: **OSHA** = no **NTP** = no **IARC** = no

SECTION III - PHYSICAL DATA

COLOR: Brown/tan PHYSICAL FORM: Viscous liquid
 NON-VOLATILE (weight): 93-95% ODOR: Sweet
 FREEZING POINT: N.E. BOILING RANGE: N.E.
 pH: 10-11(1% aqueous) EVAPORATION RATE: N.E.
 MELTING RANGE: N.A. VAPOR DENSITY: N.E.
 VAPOR PRESSURE: N.E.
 DENSITY: 8.2-8.7 lb/gal (0.98-1.04 kg/l)

SECTION IV - FIRE AND EXPLOSION DATA

HMIS FLAMMABILITY RATING: 2
 FLASH POINT: 165°F (74°C) (COC)
 FLAMMABLE LIMITS: LEL: N.E. UEL: N.E.
 EXTINGUISHING MEDIA: Carbon dioxide or other dry chemical fire fighting agents.
 UNUSUAL FIRE AND EXPLOSION HAZARDS: None.
 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 large amounts of water. Consult a physician immediately. Skin Contact: Wash affected area with soap and water. If irritation persists, consult a physician. Inhalation: Remove to an uncontaminated area, administer oxygen if necessary. If victim has stopped breathing begin CPR. Get medical attention. Ingestion: If conscious, give water but do not induce vomiting. Get immediate medical attention.
 MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: None known.
 PRIMARY ROUTES OF ENTRY: Inhalation, skin and eye contact.
 HEALTH HAZARDS (acute and chronic) / EFFECTS OF OVEREXPOSURE:
 1. Repeated or prolonged skin contact with petroleum related products tend to remove natural skin oils leading to irritation and dermatitis.
 2. Contact with eye tissues will cause irritation and possible damage without prompt first aid.

- Inhalation of product vapors is not expected at ambient temperatures because of the low vapor pressure of the product. Minimize exposure to mists, fumes or vapors.
- Ingestion of this product may be harmful.

SECTION VI - REACTIVITY DATA

STABILITY: Stable
 HAZARDOUS POLYMERIZATION: Will not occur.
 HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and nitrogen.
 INCOMPATIBILITY: Strong acids, alkalis and oxidizing agents.
 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 sweeping compound or other absorbent material. Keep petroleum out of streams and waterways.
 WASTE DISPOSAL: Incinerate or dispose of in accordance with existing Federal, State and Local environmental regulations.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: A NIOSH approved respirator to remove vapors or particle mists when necessary.
 PROTECTIVE GLOVES: Chemical resistant rubber or plastic.
 EYE PROTECTION: Safety goggles.
 OTHER PROTECTIVE EQUIPMENT: Eye wash station.

SECTION IX - SPECIAL PRECAUTIONS AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING: Avoid eye and skin contact. Avoid inhalation of particle mists.
 PRECAUTIONS TO BE TAKEN IN STORING: Completely drain "Empty" drums, properly bung and promptly dispose in an environmentally safe manner and in accordance with governmental regulations. Recycle drums only through qualified reprocessing organizations.

SECTION X - SHIPPING DATA

DOT/IMDG/IATA SHIPPING NAME: N.A.
 U.N. / N.A. NUMBER: N.A.
 DOT/IMDG/IATA HAZARD CLASS.: N.A.
 T.S.C.A. STATUS: Listed
 DOT/IMDG/IATA REQUIRED LABELS: N.A.
 TECHNICAL SHIPPING NAME: N.A.
 FREIGHT CLASS BULK: Same as above
 LTL: 65 TL: 35 MW: 30

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 APPROVED BY: Boris Miksic, President/CEO
 DATE PREPARED: 5/15/03 SUPERSEDES: 12/4/98

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