

**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)

\*\*\*\*\*VpCl®-329 U\*\*\*\*\*

**SECTION I - PRODUCT IDENTIFICATION**

PRODUCT NAME: **VpCl®-329 U**  
PRODUCT DESCRIPTION: A proprietary blend of corrosion  
inhibitors in an oil carrier.

**SECTION II - INGREDIENTS**

| INGREDIENT<br>NAME(S)     | WEIGHT<br>PERCENT | OCCUPATIONAL EXPOSURE<br>LIMITS |               |
|---------------------------|-------------------|---------------------------------|---------------|
|                           |                   | TLV OR PEL                      | ORAL<br>LD-50 |
| Naphthenic<br>distillates | 60-65             | 5mg/m <sup>3</sup> (oil mist)   | N.E.          |

**SECTION III - PHYSICAL DATA**

COLOR: Tan to brown viscous      PHYSICAL FORM: Liquid  
NON-VOLATILE (weight): 87-92%      ODOR: Petroleum  
pH: N.A.      BOILING RANGE: N.E.  
MELTING RANGE: N.A.      VAPOR DENSITY: N.E.  
VAPORIZATION RATE: N.E.      VAPOR PRESSURE: N.E.  
WEIGHT GALLON: 7.4-7.7 lb/gal (0.89 – 0.92 kg/l)

**SECTION IV - FIRE AND EXPLOSION DATA**

HMIS FLAMMABILITY RATING: 1  
FLASH POINT: 295°F (146°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. Cool tanks and  
container exposed to fire with water.

**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 and  
related products tend to remove natural skin oils leading to  
irritation and dermatitis.
2. Contact with eye tissues will cause irritation and possible  
damage unless first aid measures are taken.
3. Inhalation of product vapors is not expected at ambient  
temperatures because of the low vapor pressure of the  
product. Inhalation of particle mists or vapors from hot  
product may be harmful to the respiratory system.  
Minimize exposure to mists, fumes or vapors.

4. Ingestion of this product is expected to be harmful.  
Ingestion could result in aspiration into the lungs  
possibly leading to chemical pneumonia.

**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 contact  
with skin and eyes. Avoid inhalation of vapors.  
PRECAUTIONS TO BE TAKEN IN STORING: Do not attempt  
to clean since residue is difficult to remove. 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  
PREPARED BY: Alla Furman, Sr. Corrosion Engineer  
APPROVED BY: Margarita Kharshan, Lab Director  
DATE PREPARED: 5/15/03      SUPERSEDES: none

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