

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-615 *****

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: *VpCl-615*
 PRODUCT DESCRIPTION: Proprietary corrosion inhibitor for boiler water treatment.

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT NAME(S)	WEIGHT PERCENT	OCCUPATIONAL EXPOSURE LIMITS	
		TLV OR PEL	ORAL LD-50
Sodium hydroxide CAS # 1310-73-2	5-10	2 mg/m ³	500 mg/kg-rat

Carcinogenic: OSHA = no NTP = no IARC = no

H: 2 F: 0 R: 0 PP: B

SECTION III - PHYSICAL DATA

COLOR: Clear dark brown PHYSICAL FORM: Liquid
 ODOR: Mild pH: 12-12.5
 NON-VOLATILE (weight): 25-30%
 VAPOR PRESSURE: N.E. MELTING RANGE: N.A.
 EVAPORATION RATE: N.E. VAPOR DENSITY: N.E.
 WEIGHT GALLON: 9.7-9.8 lb/gal BOILING RANGE: N.E.

SECTION IV - FIRE AND EXPLOSION DATA

HMIS FLAMMABILITY RATING: 0
 FLASH POINT: >212°F (>100°C)
 FLAMMABLE LIMITS: LEL: N.E. UEL: N.E.
 EXTINGUISHING MEDIA: Water, 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 quantities of water for at least 15 minutes. Consult a physician. 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 person is conscious, give milk or water and induce vomiting. If breathing has stopped, start CPR. Get immediate medical attention.
 MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: None known
 PRIMARY ROUTES OF ENTRY: Inhalation, eye and skin contact.
 HEALTH HAZARDS (acute and chronic) / EFFECTS OF OVEREXPOSURE:
 1. Contact of eye tissues with liquid can be irritating.
 2. Repeated or prolonged contact may produce skin irritation.
 3. Inhalation of product vapors and/or particle mists resulting from the use of this product should be avoided.
 4. Ingestion of this product may be harmful.

SECTION VI - REACTIVITY DATA

STABILITY: Stable
 HAZARDOUS POLYMERIZATION: Will not occur.
 HAZARDOUS DECOMPOSITION PRODUCTS (under fire conditions): Oxides of carbon, sulfur and nitrogen.
 INCOMPATIBILITY: Strong acids and oxidizing agents.
 CONDITIONS TO AVOID: Avoid contact with strong acids, and oxidizing agents.

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.
 WASTE DISPOSAL: Dispose of in accordance with existing Federal, State and Local environmental regulations.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: Use a NIOSH approved respirator to remove vapors or mists.
 PROTECTIVE GLOVES: Chemical resistant rubber or plastic.
 EYE PROTECTION: Safety glasses/splash goggles
 OTHER PROTECTIVE EQUIPMENT: Eye wash station, safety shower.

SECTION IX - SPECIAL PRECAUTIONS AND STORAGE DATA

PRECAUTIONS TO BE TAKEN IN HANDLING: Avoid contact with eyes. Avoid excessive inhalation of liquid vapors or particle mists. Use in a well-ventilated environment. Workers should thoroughly wash hands with soap and water prior to eating, smoking, drinking or using lavatory.
 PRECAUTIONS TO BE TAKEN IN STORING: Keep containers tightly closed.

SECTION X - SHIPPING DATA

T.S.C.A. STATUS: Listed
 DOT/IATA/IMDG SHIPPING NAME: Corrosion liquid, n.o.s. (sodium hydroxide)
 U.N. / N.A. NUMBER: 1760
 DOT/IATA/IMDG HAZARD CLASS.: 8 PG III
 DOT/IATA/IMDG REQUIRED LABELS: Corrosive
 IMDG Code Page (Amdt. 27-94): 8136
 TECHNICAL SHIPPING NAME: Sodium hydroxide
 FREIGHT CLASS BULK: Same as above
 LTL: 55 TL: 35 MW: 40

PREPARED BY: Margarita Kharshan, Lab. Director
 APPROVED BY: Boris Miksic, President/CEO
 DATE PREPARED: 9/1/04 SUPERSEDES: 2/17/98

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