

**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)

***** VCI-411 *****

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: **VCI-411**
PRODUCT DESCRIPTION: Organic-based cleaner and degreaser

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT NAME(S)	WEIGHT PERCENT	OCCUPATIONAL EXPOSURE LIMITS	
		TLV OR PEL	ORAL LD-50
N.A.			

Carcinogenic: OSHA = no NTP = no IARC = no

SECTION III - PHYSICAL DATA

COLOR: Clear yellow PHYSICAL FORM: Liquid
NON-VOLATILE (weight): N.E. ODOR: Mild
BOILING RANGE: 339°F (170°C) MELTING RANGE: N.A.
pH: 9.0-10.5 (Neat) EVAPORATION RATE: N.E.
VAPOR PRESSURE: N.E.
DENSITY: 8.0-8.1 lb/gal (0.96-0.97 kg/l)

SECTION IV - FIRE AND EXPLOSION DATA

HMIS FLAMMABILITY RATING: 2
FLASH POINT: 134°F (57°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 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 conscious, give water or milk and induce vomiting. Get immediate medical attention.
MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: None known.
PRIMARY ROUTES OF ENTRY: Skin and eye contact.
HEALTH HAZARDS (acute and chronic) / EFFECTS OF OVEREXPOSURE:
1. Eye contact with this product will produce irritation and photosensitivity in some cases.
2. Repeated or prolonged contact will produce skin irritation. Frequent exposure may induce dermatitis in sensitive individuals.
3. Inhalation of product vapors will irritate mucous membranes. Product may be moderate irritant to the throat and respiratory passage.
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): Carbon monoxide and dioxide.
INCOMPATIBILITY: Strong oxidizers, acids, peroxides and halogens.
CONDITIONS TO AVOID: Contact with incompatible materials, direct heat or flame.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: SMALL SPILL: Absorb on sweeping compound or other absorbent material. LARGE SPILL: Eliminate all ignition sources. All persons not wearing protective equipment should be excluded from area of spill until clean up has been completed. Stop spill at source. Dike area of spill to prevent spreading and pump liquid to salvage tank. Remove remaining liquid on sand, clay, earth, floor absorbent, or other absorbent material and place in containers. Notify proper authorities as required by local, state and federal regulations.
WASTE DISPOSAL: SMALL SPILL: Allow volatile portion to evaporate in hood. Dispose of in accordance with applicable regulations. LARGE SPILL: Destroy by liquid incineration. Contaminated absorbent may be deposited in a landfill in accordance with existing Federal, State and Local environmental regulations.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: A NIOSH approved respirator is recommended.
PROTECTIVE GLOVES: Chemical resistant rubber of plastic.
EYE PROTECTION: Safety goggles.
OTHER PROTECTIVE EQUIPMENT: N.A.

SECTION IX - SPECIAL PRECAUTIONS AND STORAGE DATA

PRECAUTIONS TO BE TAKEN IN HANDLING: Avoid eye and prolonged or repeated skin contact. 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

T.S.C.A. STATUS: Listed
UN/NA NUMBER: 2319
DOT/IATA/IMDG SHIPPING NAME: Terpene hydrocarbons, n.o.s.
DOT/IATA/IMDG HAZARD CLASS.: 3
DOT/IATA/IMDG REQUIRED LABELS: Flammable liquid
IMDG Code Page: 3383, Amdt. 25-89
TECHNICAL SHIPPING NAME: N.A.

PREPARED BY: Margarita Kharshan, R&D Manager
APPROVED BY: Christophe Chandler, Lab Director
DATE PREPARED: 2/9/00 SUPERSEDES: None

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