

MATERIAL SAFETY DATA SHEET
COMPLIES WITH OSHA'S HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)

SECTION I - PRODUCT IDENTIFICATION

Product Name: Penetrant, Lubricant, Demoisurant, Protectant – Chlorinated

Product Number: 2-220

Product Type: Bulk Liquid

Supplier's Name: Terand Industries, Inc.

Supplier's Address: P.O. Box 667770, Pompano Beach, FL 33066

D.O.T. Shipping Description: 55 GAL: RQ, Toxic, liquids, organic, n.o.s. (Trichloroethylene), 6.1, UN2810, PGIII
5 GAL: Toxic, liquids, organic, n.o.s. (Trichloroethylene), 6.1, UN2810, PGIII

Formula: Proprietary

Date Prepared: 02/07/08

Emergency Phone: (800) 535-5053

Information Phone: (954) 974-5440

HMIS Rating

0-Minimal; 1- Slight; 2- Moderate

3- Serious; 4- Extreme

HEALTH: 2; FIRE: 1; PHYSICAL HAZARD: 0

Personal Protection: G

SECTION II - HAZARDOUS INGREDIENTS

CHEMICAL NAME	CAS #	%WT	313/Chem	Skin	Carcinogen	PEL	TLV (TWA)
¹ Trichloroethylene	79-01-6	40-50	YES	NO	YES	50 ppm	50 ppm
Distillates (Petroleum), Hydrotreated Light Naphthenic	64742-53-6	40-50	NO	NO	NO	5 mg/m ³	5 mg/m ³
2-Butoxyethanol	111-76-2	01-10	YES	YES	NO	50 ppm	20 ppm

¹California Proposition 65: This chemical is known to the State of California to cause cancer.

SECTION III - PHYSICAL DATA

Boiling Point: 180 °F

Specific Gravity (H₂O=1)@75 °F: 1.10

pH: N/A

Vapor Density(Air=1): >1

Solubility In Water: Insoluble

Appearance/Odor: Brown Liquid, Solvent Odor

Total VOC (Volatile Organic Compound) %: 51%

SECTION IV - FIRE AND EXPLOSION DATA

Flash Point (of Concentrate Only): None to boil

Extinguishing Media: Foam, CO₂, Dry Media

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing. Cool fire exposed containers to prevent rupturing.

Unusual Fire and Explosion Hazards: Vapors concentrated in a confined or poorly ventilated area may be ignited upon contact with a high-energy spark, flame, or high intensity source of heat.

SECTION V - REACTIVITY DATA

Stability: Material Stable.

Hazardous Polymerization: Will not Occur.

Incompatibility: Avoid contact with strong oxidizing agents.

Hazardous Decomposition Products: Carbon Dioxide, Carbon Monoxide, Hydrogen Chloride and possible trace amounts of Phosgene.

SECTION VI - STORAGE AND HANDLING

KEEP OUT OF REACH OF CHILDREN.

For Industrial and Institutional use only.

Store in a cool, dry area away from heat or open flame.

Do not store at temperatures above 120 ° F.

SECTION VII - HEALTH AND FIRST AID

PRIMARY ROUTES OF ENTRY & EFFECTS OF OVER EXPOSURE:

Eyes: May cause moderate irritation accompanied by pain, tearing, redness, and swelling of eyes. Pain may be disproportionate to level of irritation to eye tissues.

Skin: Frequent or prolonged contact may cause irritation accompanied by redness, edema, drying and cracking of skin, and could cause dermatitis. May aggravate existing skin conditions. Absorption through the skin in small quantities is possible and could add to toxic effects from inhalation or ingestion.

Inhalation: Inhalation of vapors and mist may cause irritation of the mucous membranes and upper respiratory tract. Abusive or excessive inhalation may cause dizziness, nausea, headache, drowsiness, fatigue, elevated blood pressure and pulse rate, and unconsciousness. Repeated overexposure can lead to blood abnormalities, kidney damage, liver damage, and other central and peripheral nervous system effects including coma or death.

Ingestion: Ingestion of small amounts during normal handling is not likely to cause harmful effects. Ingestion of larger amounts may cause serious injury and even death. Aspiration of material into lungs may cause pulmonary injury and subsequent rapid absorption may injure other body systems.

FIRST AID PROCEDURES:

Eyes: Flush with large amounts of cool running water for at least 15 minutes while holding upper and lower lids open. Get medical attention immediately.

Skin: Wash with plenty of soap and water. If irritation persists seek medical attention.

Inhalation: Remove to fresh air. Seek medical attention immediately. If breathing stops give artificial respiration.

Ingestion: Do not induce vomiting. Seek medical attention immediately.

Notes to Physician: Because rapid absorption may occur through the lungs if aspirated and cause systemic effects, the decision of whether to induce vomiting or not should be made by a physician. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. Exposure may increase "myocardial irritability." Do not administer sympathomimetic drugs such as epinephrine unless absolutely necessary. Alcohol consumed before or after exposure may increase adverse effects. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION VIII - SPECIAL PROTECTION DATA

Respiratory Protection: If ventilation is not adequate to reduce vapors below Threshold Limit Value (TLV) levels, use a NIOSH/MSHA approved air-purifying respirator equipped with an organic vapor cartridge.

Ventilation: Provide local exhaust to keep air concentrations of ingredients listed in Section II below acceptable limits.

Protective Gloves: Use chemical resistant gloves if hand contact will be made.

Eye Protection: Wear chemical proof splash goggles or safety glasses to prevent eye contact.

SECTION IX - SPILL OR LEAK PROTECTION

STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK: Maintain local exhaust and adequate ventilation. No smoking. Keep sparks, heat sources and open flame far away from spill or leak. Cover with absorbent material and sweep up. Wash area to prevent slipping. Dispose of soaked absorbent material in accordance with Federal, State and local laws.

WASTE DISPOSAL METHOD: Consult Federal, State and local authorities for approved procedures.

N/A= NOT APPLICABLE · N/E=NOT ESTABLISHED · N/D=NOT DETERMINED · <=LESS THAN · >=MORE THAN

NOTICE: The information contained on this Material Safety Data Sheet is considered accurate as of the date of publication. It is not necessarily all inclusive nor fully adequate in every circumstance. The suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements. No warranty, express or implied, of merchantability, fitness, accuracy of data, or the results to be obtained from the use thereof is made. The vendor assumes no responsibility for injury or damages resulting from the inappropriate use of this product.