

# MATERIAL SAFETY DATA SHEET

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## I - Product Identification

### Penetrating Oil

PRODUCT CODE: 8100

CHEMICAL FORMULATION: Pressurized solvent based lubricant.

NFPA HAZARD IDENTIFICATION SYSTEM: HEALTH: 2 FLAMMABILITY: 1 REACTIVITY: 0  
HAZARD RATING: 4 - Extreme; 3 - High; 2 - Moderate; 1 - Slight; 0 - Insignificant

## II - Hazardous Ingredients

Values reported as TWA unless noted.

SUBSTANCE	APPROX %	OSHA PEL	ACGIH TLV	EPA 40 CFR:			CAS#
				302	355	372	
Trichloroethylene	50.0-60.0	100 ppm	50 ppm	Y	N	Y	79-01-6
Carbon Dioxide	10.0-20.0	10,000 ppm	5,000 ppm	N	N	N	124-38-9
Hydrotreated base oil (as oil mist)	30.0-40.0	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	N	N	N	64742-52-5

Key: PEL: Permissible Exposure Limit TLV: Threshold Limit Value C: Ceiling level STEL: Short Term Exposure Limit  
N/A: Not Applicable N/D: Not Determined N/E: Not Established Y: Yes N: No  
302: CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR,302.4).  
355: SARA TITLE III / List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355).  
372: SARA TITLE III / List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372).

## III - Physical Data

BOILING POINT (°F): N/D

VAPOR PRESSURE (mm Hg): N/D

VAPOR DENSITY (AIR = 1): N/D

SOLUBILITY IN WATER: Insoluble

APPEARANCE AND ODOR: Cloudy, straw colored liquid; chlorinated solvent odor.

SPECIFIC GRAVITY (WATER = 1): 1.15

VOC CONTENT (% by weight): N/D

EVAPORATION RATE (WATER = 1): > 1.0

pH: N/A

## IV - Fire and Explosion Hazard Data

FLASH POINT (°F): > 200

(TEST METHOD): Closed cup

FLAME EXTENSION: N/D

FLAMMABLE LIMITS IN AIR (VOLUME %)

UPPER: N/D

LOWER: N/D

NFPA 30B Rating: 1

EXTINGUISHING MEDIA: Foam, carbon dioxide, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Cool fire exposed containers with water fog. Firefighters should be equipped with full protective gear including self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARD: Exposure to temperatures above 120 °F can cause cans to burst. Solvent vapors may cause flashback.

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### V - Reactivity Data

**STABILITY:** Stable

**INCOMPATIBILITY:** Oxidizers, strong acids, alkalis and aluminum.

**CONDITIONS TO AVOID:** None.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may produce oxides of carbon, hydrogen chloride and traces of phosgene.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** None

### VI - Health Hazard Data

**ROUTES OF ENTRY**      **INHALATION:** X      **EYE CONTACT:** X      **SKIN CONTACT:** X      **INGESTION:** X

**INGREDIENTS THAT ARE CONSIDERED BY OSHA, NTP, IARC TO BE SUSPECTED HUMAN CARCINOGENS:** Trichloroethylene (IARC 2A)

#### EFFECTS OF OVEREXPOSURE

**IF IN EYES:** Moderate to severe irritation.

**IF ON SKIN:** Redness, dryness, irritation, dermatitis with prolonged or repeated exposure.

**IF SWALLOWED:** Gastrointestinal irritation, nausea, cramps, vomiting.

**IF INHALED:** Irritation to upper respiratory tract, CNS depression, cardiac sensitization.

#### EMERGENCY AND FIRST AID PROCEDURES

**IF IN EYES:** Flush eyes and under eyelids with plenty of cool water for at least 15 minutes. If irritation persists, obtain medical attention.

**IF ON SKIN:** Wash with soap and water. If irritation persists, obtain medical attention.

**IF SWALLOWED:** Contact physician or poison control center immediately. Give affected person 1 to 2 glasses of water. Do not induce vomiting. Never give anything to an unconscious person.

**IF INHALED:** Remove person to fresh air. If irritation persists, obtain medical attention.

### VII - Spill of Leak Protection

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Ventilate area and extinguish all sources of ignition. Soak up spilled material with inert absorbent material and place in a labeled closed container.

**WASTE DISPOSAL METHOD:** Consult local environmental authorities. Dispose of cans in non-incinerated trash.

### VIII - Special Protection Information

**RESPIRATORY PROTECTION:** Use with adequate ventilation. Do not breathe vapors or mists. If recommended Exposure Limits are exceeded, wear a NIOSH approved respirator, following the manufacturer's recommendations.

**VENTILATION**

**LOCAL:** Recommended

**MECHANICAL:** Not required

**PROTECTIVE GLOVES:** Chemical resistant.

**EYE PROTECTION:** Chemical goggles and/or face shield.

**OTHER PROTECTIVE EQUIPMENT:** Apron, eye wash station.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Store in a cool, dry place. Keep container tightly closed when not in use.

**OTHER PRECAUTIONS:** Keep out of reach of children. Do not puncture or incinerate can.

### IX - Transportation Information (ground transportation only)

**DOT PROPER SHIPPING NAME:** Consumer Commodity

**DOT CLASS:** ORM-D

**DOT ID NUMBER:** None

**DOT PACKING GROUP:** None

The shipping information listed above applies only to non-bulk (< 119 gallons) containers of this product. This product may have more than one proper shipping name depending on packaging, product properties, & mode of shipment. If any alteration of packaging, product, or mode of transportation is further intended, different shipping names and labeling may apply.

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**Prepared by:** PMR

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