

MATERIAL SAFETY DATA SHEET

Total Solutions
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GENERAL INFORMATION NUMBER: (414) 354-6417
CHEMTREC: (800) 424-9300

REVISION DATE: May 6, 2013
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I - Product Identification

Heavy Duty Penetrating Oil

PRODUCT CODE: 8100

CHEMICAL FORMULATION: Pressurized solvent based lubricant.

HMIS HAZARD IDENTIFICATION SYSTEM: HEALTH: 2

FLAMMABILITY: 2

REACTIVITY: 0

HAZARD RATING: 4 - Extreme; 3 - High; 2 - Moderate; 1 - Slight; 0 - Insignificant

II - Hazardous Ingredients

Values reported as TWA unless noted.

<u>SUBSTANCE</u>	<u>APPROX</u>	<u>OSHA</u>	<u>ACGIH</u>	<u>EPA 40 CFR:</u>			<u>CAS #</u>
	<u>%</u>	<u>PEL</u>	<u>TLV</u>	<u>302</u>	<u>355</u>	<u>372</u>	
Perchloroethylene	50.0-60.0	100 ppm	25 ppm	Y	N	Y	127-18-4
Deodorized Kerosene	30.0-40.0	N/E	N/E	N	N	N	64742-47-8
Carbon Dioxide	1.0-3.0	5,000 ppm	5,000 ppm	N	N	N	124-38-9

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): 295 (estimated)

SPECIFIC GRAVITY (WATER = 1): 1.2

VAPOR PRESSURE (psig): 70-90 @ 70°F

VOC CONTENT (% by weight): 33.3

VAPOR DENSITY (AIR = 1): N/D

EVAPORATION RATE (WATER = 1): N/D

SOLUBILITY IN WATER: None

pH: N/A

APPEARANCE AND ODOR: Clear, brown colored liquid; solvent odor.

IV - Fire and Explosion Hazard Data

FLASH POINT (°F): 159 (TEST METHOD): Estimated

FLAME EXTENSION: N/D

NFPA 30B Rating: 1

FLAMMABLE LIMITS IN AIR (VOLUME %): UPPER: N/E

LOWER: N/E

EXTINGUISHING MEDIA: Water.

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.

V - Reactivity Data

STABILITY: Stable

INCOMPATIBILITY: Oxidizers, strong acids and alkalis.

CONDITIONS TO AVOID: Keep away from heat, direct sunlight, open flames or sparks.

HAZARDOUS DECOMPOSITION PRODUCTS: May include oxides of sulfur. Hydrogen chloride.

HAZARDOUS POLYMERIZATION: Will not occur.

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:

Perchloroethylene (IARC 2A)

EFFECTS OF OVEREXPOSURE

IF IN EYES: Causes eye irritation.

IF ON SKIN: Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. Irritating to skin.

IF SWALLOWED: Exposure by ingestion of an aerosol is unlikely. May cause delayed lung damage. Components of the product may be absorbed into the body by ingestion.

IF INHALED: Intentional misuse by concentrating and inhaling the product can be harmful or fatal. Irritating to respiratory system. Prolonged inhalation may be harmful.

EMERGENCY AND FIRST AID PROCEDURES

IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

IF ON SKIN: Remove and isolate contaminated clothing and shoes. Wash off with warm water and soap. Get medical attention if irritation develops and persists. For minor skin contact, avoid spreading material on unaffected skin.

IF SWALLOWED: Do not induce vomiting without advice from poison control center. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way or other proper respiratory medical device. Call a physician immediately.

IF INHALED: If symptoms develop move victim to fresh air. Oxygen or artificial respiration if needed. Get medical attention immediately.

VII - Spill or Leak Protection

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Ventilate area. Extinguish all sources of ignition. Contain spill and 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 are recommended.

OTHER PROTECTIVE EQUIPMENT: Impervious clothing.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in a cool, dry place away from heat or open flame.

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

IX - Transportation Information (ground transportation only)

DOT ID NUMBER: None

DOT PROPER SHIPPING NAME: Consumer Commodity

DOT CLASS: ORM-D

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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