MATERIAL SAFETY DATA SHEET

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I - Product Identification

Penetrating Oil Aerosol

PRODUCT CODE: 8100
CHEMICAL FORMULATION: Pressurized solvent based lubricant.
NFPA HAZARD IDENTIFICATION SYSTEM: **HEALTH:** 2 **FLAMMABILITY:** 4 **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: 302	355	372	CAS #
Trichloroethylene	<40.0	50 ppm	50 ppm	Y	N	Y	79-01-6
Heavy Paraffinic Petroleum Oil	<20.0	N/E	N/E	N	N	N	64741-88-4
Kerosene	<30.0	400 ppm	400 ppm	N	N	N	8008-20-6
Aliphatic Petroleum Distillate	<10.0	300 ppm	300 ppm	N	N	N	64742-89-8
Carbon Dioxide		800 ppm	800	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): N/D
VAPOR PRESSURE (mm Hg): N/D
VAPOR DENSITY (AIR = 1): N/D
SOLUBILITY IN WATER: Insoluble
SPECIFIC GRAVITY (WATER = 1): 1.00
VOC CONTENT (% by weight): 81
EVAPORATION RATE (WATER = 1): > 1.0
pH: N/A
APPEARANCE AND ODOR: Clear, colorless to light yellow spray/mist with solvent odor.

IV - Fire and Explosion Hazard Data

FLASH POINT (°F): 92 **(TEST METHOD):** TCC **FLAME EXTENSION:** >18 inch, Positive flash back
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: DANGER: EXTREMELY FLAMMABLE. Contents under pressure. Cool exposed containers with water spray to prevent bursting. SCBA should be used whenever chemical fires are present.
UNUSUAL FIRE AND EXPLOSION HAZARD: Exposure to temperatures above 120 ^{o}F can cause cans to burst. Solvent vapors may cause flashback.

V - Reactivity Data

STABILITY: Stable
INCOMPATIBILITY: Strong oxidizers and acids.
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:**
INGREDIENTS THAT ARE CONSIDERED BY OSHA, NTP, IARC TO BE SUSPECTED HUMAN CARCINOGENS: Trichloroethylene (IARC 2A)

EFFECTS OF OVEREXPOSURE

IF IN EYES: Causes severe irritation, experienced as discomfort or pain, excess blinking and tear production, with redness and swelling of the conjunctiva.
IF ON SKIN: Brief contact may cause slight irritation. Prolonged contact may cause more severe irritation with pain, local redness and swelling.
IF SWALLOWED: Harmful or fatal if swallowed. Aspiration hazard - this material can enter lungs during swallowing or vomiting and cause lung inflammation and damage.
IF INHALED: High vapor/aerosol concentrations (>1000ppm) are irritating to the respiratory tract. May cause headaches, dizziness, anesthesia, drowsiness, unconsciousness and other central nervous system effects, including death. May cause peripheral nervous system disorder and/or damage..

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 or 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 use an organic vapor and particulate cartridge. All respirator programs must meet OSHA's 29 CFR 1910.34 & ANSI Z88.2 requirements. When using the respirator, follow the manufacturer's recommendations.
VENTILATION **LOCAL:** Recommended **MECHANICAL:** Not required
PROTECTIVE GLOVES: To prevent repeated or prolonged contact, wear impervious gloves (made from rubber, nitrile or neoprene).
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 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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