

**PRO CHEM, INC.**

1475 BLUEGRASS LAKES PKWY.  
ALPHARETTA, GA 30004  
EMERGENCY/INFO # (800) 241-8180  
ADDITIONAL EMERGENCY # INFO TRAC 1-800-535-5053

# MATERIAL SAFETY DATA SHEET

## PRO TOOLS MP PENETRANT LUBRICANT / 1496

JUNE 2010

PAGE 1

HEALTH	2
FIRE	0
REACTIVITY	0
P.P.E.	B

Complies With USDL Safety and Health Regulations, (29 CFR 1910.200)

**SECTION 1 – Chemical and Company Identification****PRODUCT USE:** Penetrant / Lubricant.**SECTION 2 – Composition on Ingredients**

INGREDIENT	CAS #	WT %
Perchloroethylene	127-18-4	60 - 100
Trichloroethylene	79-01-6	5 - 10
Carbon dioxide	124-38-9	1 - 5
Sulfonic acids, petroleum, calcium salts	61789-86-4	1 - 5

**SECTION 3 – Hazards Information****EMERGENCY OVERVIEW:** WARNING. Harmful by inhalation. May cause eye irritation. May cause skin irritation. Contents under pressure. Container may explode if heated.**POTENTIAL HEALTH EFFECTS:** See Section 11 for more information.**LIKELY ROUTES OF EXPOSURE:** Skin contact, eye contact, inhalation, and ingestion.**INHALATION:** Harmful by inhalation. May cause respiratory tract irritation. This product may be aspirated into the lungs and cause chemical pneumonitis.**EYE CONTACT:** May cause eye irritation.**SKIN CONTACT:** May cause skin irritation.**INGESTION:** Not a normal route of exposure. Harmful; may cause lung damage if swallowed.**CHRONIC EFFECTS:** Prolonged or repeated contact may dry skin and cause irritation.**SIGNS AND SYMPTOMS:** Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Handling can cause dry skin. Vapors may cause drowsiness and dizziness.**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Asthma. Allergies.**TARGET ORGANS:** Skin, eyes, gastrointestinal tract, respiratory system.

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**POTENTIAL ENVIRONMENTAL EFFECTS:** May cause long-term adverse effects in the aquatic environment. See Section 12 for more information.**SECTION 4 – First Aid Measures****EYE CONTACT:** In case of contact, immediately flush eyes with plenty of water. If easy to do, remove contact lenses, if worn.**SKIN CONTACT:** In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.**INHALATION:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.**INGESTION:** If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.**GENERAL ADVICE:** In case of accident or if you feel unwell, seek medical advice immediately (show the label or MSDS where possible).**NOTE TO PHYSICIANS:** Symptoms may not appear immediately.**SECTION 5 – Fire Fighting Measures****FLAMMABILITY:** Not flammable by WHMIS/OSHA criteria.**MEANS OF EXTINCTION:** Suitable Extinguishing Media: Powder, foam, carbon dioxide.

Unsuitable Extinguishing Media: Water.

**PRODUCTS OF COMBUSTION:** May include, and are not limited to: oxides of carbon, HCl, small amounts of phosgene and chlorine.**EXPLOSION DATA:** Sensitivity to Mechanical Impact: Not available.

Sensitivity to Static Discharge: Not available.

**PROTECTION OF FIREFIGHTERS:** Containers may explode when heated. Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).**SECTION 6 – Accidental Release Measures****PERSONAL PRECAUTIONS:** Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition. Ruptured cylinders may rocket.**ENVIRONMENTAL PRECAUTIONS:** Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). This material is a water pollutant. Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.**METHODS FOR CONTAINMENT:** Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).**METHODS FOR CLEAN-UP:** Vacuum or sweep material and place in a disposal container. Allow gas to dissipate harmlessly into the atmosphere.**OTHER INFORMATION:** Not available.**SECTION 7 – Handling and Storage****HANDLING:** Keep away from sources of ignition. - No smoking. Avoid contact with skin and eyes. Do not swallow. Do not breathe gas/fumes/vapor/spray. Use only in well-ventilated areas. Handle and open container with care. When using, do not eat or drink. Wash hands before eating, drinking, or smoking.**STORAGE:** Keep out of the reach of children. Keep container in a well-ventilated place. Do not store at temperatures above 49°C / 120°F.**SECTION 8 – Exposure Controls/Personal Protection**

EXPOSURE GUIDELINES	EXPOSURE LIMITS	
INGREDIENT	OSHA-PEL	ACGIH-TLV
Perchloroethylene	25 ppm	25 ppm
Trichloroethylene	100 ppm	50 ppm
Carbon dioxide	5000 ppm	5000 ppm
Sulfonic acids, petroleum, calcium salts	Not available	Not available

**ENGINEERING CONTROLS:** Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.**PERSONAL PROTECTIVE EQUIPMENT:****EYE/FACE PROTECTION:** Wear eye/face protection.**HAND PROTECTION:** Wear suitable gloves.**SKIN AND BODY PROTECTION:** Wear suitable protective clothing.**RESPIRATORY PROTECTION:** In case of insufficient ventilation, wear suitable respiratory equipment.**GENERAL HYGIENE CONSIDERATIONS:** Handle according to established industrial hygiene and safety practices.**SECTION 9 – Physical and Chemical Properties****Appearance:** Opaque.**Color:** Brown.**Physical State:** Gas/Pressurized Liquid.**Viscosity:** Not available.**Boiling Point:** Not available.**Evaporation Rate:** Not available**Upper Flammability Limit:** Not available.**Odor:** Solvent**Odor Threshold:** Not available.**pH:** Not applicable.**Freezing Point:** Not available.**Flash Point:** Not available.**Vapor Pressure:** Not available.**Lower Flammability Limit:** Not available.

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**Vapor Density:** Not available.**Solubility in Water:** Insoluble.**Auto-ignition Temperature:** Not available.**VOC content, wt. %:** 8.2% (US federal/CARB/OTC/LADCO)**Specific Gravity:** 1.42 (Liquid Concentrate)**Coefficient of Water/Oil Distribution:** Not available.**Percent Volatile, wt. %:** Not available**PERSISTENCE/DEGRADABILITY:** Not available.**BIOACCUMULATION/ACCUMULATION:** Not available.**MOBILITY IN ENVIRONMENT:** Not available.**SECTION 10 – Stability and Reactivity****STABILITY:** Stable under normal storage conditions. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn. Keep in a cool place.**CONDITIONS OF REACTIVITY:** Heat. Incompatible materials.**INCOMPATIBLE MATERIALS:** Oxidizers. Aluminum. Magnesium. Reactive metals.**HAZARDOUS DECOMPOSITION PRODUCTS:** May include, and are not limited to: oxides of carbon, HCl, small amounts of phosgene and chlorine.**POSSIBILITY OF HAZARDOUS REACTIONS:** No dangerous reaction known under conditions of normal use.**SECTION 11 – Toxicological Information****EFFECTS OF ACUTE EXPOSURE****Component Analysis**

Ingredient	LD <sub>50</sub> (oral)	LC <sub>50</sub>
Perchloroethylene	2629 mg/kg, rat	34.2 g/m <sup>3</sup> 8hrs, rat
Trichloroethylene	5650 mg/kg, rat	Not available.
Carbon dioxide	Not available.	Not available.
Sulfonic acids, petroleum, calcium salts	Not available.	Not available.

**Eye:** May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.**Skin:** May cause skin irritation. Handling can cause dry skin.**Ingestion:** Not a normal route of exposure. Harmful: may cause lung damage if swallowed.**Inhalation:** Harmful by inhalation. May cause respiratory tract irritation. This product may be aspirated into the lungs and cause chemical pneumonitis. Vapors may cause drowsiness and dizziness.**EFFECTS OF CHRONIC EXPOSURE****Target Organs:** Not available.**Chronic Effects:** (Effects due to excessive exposure to the raw materials of this mixture) May cause liver abnormalities, kidney, spleen, lung or brain damage, or cardiac abnormalities. Perchloroethylene has been shown to increase the rate of spontaneously occurring malignant tumors in certain laboratory rats and mice.**Carcinogenicity:** Hazardous by WHMIS/OSHA criteria.

Ingredient	Chemical Listed as Carcinogen or Potential Carcinogen *
Perchloroethylene	G-A3, 1-2A, N-2, CP65
Trichloroethylene	1-2A, N-2, CP65
Carbon dioxide	Not listed.
Sulfonic acids, petroleum, calcium salts	Not listed.

\* See Section 15 for more information.

**MUTAGENICITY:** Hazardous by WHMIS/OSHA criteria.**REPRODUCTIVE EFFECTS:** Not hazardous by WHMIS/OSHA criteria.**DEVELOPMENTAL EFFECTS:****Teratogenicity:** Not hazardous by WHMIS/OSHA criteria.**Embryotoxicity:** Not hazardous by WHMIS/OSHA criteria.**RESPIRATORY SENSITIZATION:** Not hazardous by WHMIS/OSHA criteria.**SKIN SENSITIZATION:** Not hazardous by WHMIS/OSHA criteria.**TOXICOLOGICALLY SYNERGISTIC MATERIALS:** Not available.**SECTION 12 – Ecological Information****ECOTOXICITY:** May cause long-term adverse effects in the aquatic environment**SECTION 13 – Disposal Consideration****DISPOSAL INSTRUCTIONS:**

This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

**SECTION 14 – Transport Information****DOT CLASSIFICATION:** ORM-D**TDG CLASSIFICATION:** Limited quantity**SECTION 15 – Regulatory Information****Federal Regulations****Canadian:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.**US:** MSDS prepared pursuant to the Hazard Communication Standard (29 CFR 1910.1200).**SARA Title III**

Ingredient	Section 302 (EHS) TPQ (lbs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313
Perchloroethylene	Not listed.	Not listed.	100	313
Trichloroethylene	Not listed.	Not listed.	100	313
Carbon dioxide	Not listed.	Not listed.	Not listed.	Not listed.
Sulfonic acids, petroleum, calcium salts	Not listed.	Not listed.	Not listed.	Not listed.

petroleum, calcium salts

**State Regulations****California Proposition 65:** This product contains chemicals known to the state of California to cause cancer.**Global Inventories**

Ingredient	Canada DSL/NDSL	USA TSCA
Perchloroethylene	DSL	Yes
Trichloroethylene	DSL	Yes
Carbon dioxide	DSL	Yes
Sulfonic acids, petroleum, calcium salts	DSL	Yes

**HMIS - Hazardous Materials Identification System**

Health - 2 Flammability - 0 Physical Hazard - 0 PPE-B

**NFPA - National Fire Protection Association:**

Health - 2 Fire - 0 Reactivity - 0

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

**WHMIS Classification(s):**

Class A - Compressed Gas

Class D1 B - Toxic Material

Class D2A - Carcinogenicity

Class D2A - Mutagenicity

Class D2B - Chronic Toxic Effects

Class D2B - Skin/Eye Irritant

**WHMIS Hazard Symbols:**

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**SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:****OSHA (O)** Occupational Safety and Health Administration.**ACGIH (G)** American Conference of Governmental Industrial Hygienists.

A1 - Confirmed human carcinogen.

A2 - Suspected human carcinogen.

A3 - Animal carcinogen.

A4 - Not classifiable as a human carcinogen.

A5 - Not suspected as a human carcinogen.

**IARC (I)** International Agency for Research on Cancer.

1 - The agent (mixture) is carcinogenic to humans.

2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.

2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.

3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.

4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

**NTP (N)** National Toxicology Program.

1 - Known to be carcinogens.

2 - Reasonably anticipated to be carcinogens.

**SECTION 16 – Other Information***Disclaimer:*

*We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.*

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