






SAFETY DATA SHEET

1. Product and Company Identification

PRODUCT NUMBER:	1496	COMPANY PHONE:	1-800-241-8180
PRODUCT NAME:	PRO TOOLS MP PENETRANT LUBRICANT	EMERGENCY TELEPHONE:	1-800-241-8180
PRODUCT DESCRIPTION:	Multipurpose Penetrant, Lubricant, and Demoisturant	INFOTRAC:	1-800-535-5053
COMPANY INFORMATION:	PRO CHEM, INC. 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004		

2. Hazards Identification

GHS CLASSIFICATION: Gases under pressure: Compressed gas. Skin irritation: Category 2 Eye irritation: Category 2A Carcinogenicity: Category 1A	SIGNAL WORD: DANGER	SYMBOL:			
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HAZARD STATEMENTS:

H280 Contains gas under pressure; may explode if heated.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H350 May cause cancer.

PRECAUTIONARY STATEMENTS:

Prevention:

P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P264: Wash skin thoroughly after handling.
P280: Wear eye protection/ face protection.
P280: Wear protective gloves.
P281: Use personal protective equipment as required.

Response:

P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313: IF exposed or concerned: Get medical advice/ attention.
P332 + P313: If skin irritation occurs: Get medical advice/ attention.
P337 + P313: If eye irritation persists: Get medical advice/ attention.
P362: Take off contaminated clothing and wash before reuse.

Storage:

P405: Store locked up.
P410 + P403: Protect from sunlight. Store in a well-ventilated place.

Disposal:

P501: Dispose of contents/container in accordance with local regulation.

POTENTIAL HEALTH EFFECTS:

Carcinogenicity:

IARC: Group 1: Carcinogenic to humans.
Trichloroethylene 79-01-6
Group 2A: Probably carcinogenic to humans.
Tetrachloroethylene 127-18-4

ACGIH:

Suspected human carcinogen.
Trichloroethylene 79-01-6
Confirmed animal carcinogen with unknown relevance to humans.

OSHA: No component of this product presents at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP:

Reasonably anticipated to be a human carcinogen.
Tetrachloroethylene 127-18-4
Trichloroethylene 79-01-6

3. Composition / Information on Ingredients

CHEMICAL NAME	CAS	Concentration % by Weight
tetrachloroethylene	127-18-4	>= 70 - < 90
Trichloroethylene	79-01-6	>= 5 - < 10
carbon dioxide	124-38-9	>= 1 - < 5

4. First Aid Measures

EMERGENCY OVERVIEW

GENERAL: Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.

EYES: Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. If in eyes, rinse with water for 15 minutes.

SKIN: Remove contaminated clothing and shoes. Wash clothing before reuse. Wash off immediately with plenty of water for at least 15 minutes. Call a physician if irritation develops or persists.

INHALATION:

If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.

INGESTION:

Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Take victim immediately to hospital.

5. Fire-Fighting Measures

SUITABLE FIRE EXTINGUISHING MEDIA:

Foam. Carbon dioxide (CO₂).

UNSUITABLE FIRE EXTINGUISHING MEDIA:

High volume water jet.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

Do not allow run-off from firefighting to enter drains or watercourses.

HAZARD COMBUSTION PRODUCTS:

Carbon dioxide (CO₂). Carbon monoxide. Smoke. Chlorine compounds.

SPECIFIC FIRE-FIGHTING METHODS:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

Wear self-contained breathing apparatus for firefighting, if necessary.

6. Accidental Release Measures

PERSONAL PRECAUTIONS:

Use personal protective equipment. Remove all sources of ignition.

ENVIRONMENTAL PRECAUTIONS:

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

METHODS & MATERIALS FOR CONTAINMENT & CLEAN-UP:

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up or vacuum up spillage and collect in suitable container for disposal.

7. Handling and Storage

SAFE HANDLING:

Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see Section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.

SAFE STORAGE:

BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50°C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

MATERIALS TO AVOID:

Do not store together with oxidizing and self-igniting products. Keep away from metals.

STORAGE TEMPERATURES:

< 49°C

8. Exposure Controls / Personal Protection

COMPONENTS WITH WORKPLACE CONTROL PARAMETERS				
Components	CAS #	Value Type (Form of exposure)	Control Parameters/Permissible Concentration	Basis
Tetrachloroethylene	127-18-4	TWA	25 ppm	ACGIH
		STEL	100 ppm	ACGIH
		TWA	100 ppm	OSHA Z-2
		CEIL	200 ppm	OSHA Z-2
		Peak	300 ppm	OSHA Z-2
		TWA	25 ppm	OSHA P0
trichloroethylene	79-01-6	TWA	170 mg/m ³	ACGIH
		STEL	10 ppm	ACGIH
		TWA	25 ppm	OSHA Z-2
		CEIL	100 ppm	OSHA Z-2
		Peak	200 ppm	OSHA Z-2
		TWA	300 ppm	OSHA Z-2
		TWA	50 ppm	OSHA P0
STEL	270 mg/m ³	OSHA P0		
		STEL	200 ppm	OSHA P0
			1,080 mg/m ³	

carbon dioxide	124-38-9	TWA	5,000 ppm	ACGIH
		STEL	30,000	ACGIH
		TWA	5,000 ppm	NIOSH REL
			9,000 mg/m ³	
		ST	30,000 ppm	NIOSH REL
			54,000 mg/m ³	
		TWA	5,000 ppm	OSHA Z-1
			9,000 mg/m ³	
		TWA	10,000 ppm	OSHA P0
			18,000 mg/m ³	
		STEL	30,000 ppm	OSHA P0
			54,000 mg/m ³	

BIOLOGICAL OCCUPATIONAL EXPOSURE LIMITS

Components	CAS #	Control Parameters	Biological Specimen	Sampling Time	Permissible Concentration	Basis
Tetrachloroethylene	124-18-4	Tetrachloroethylene	In blood	Prior to shift (16 hours after exposure ceases)	0.5 mg/l	ACGIH BEI
Tetrachloroethylene		Tetrachloroethylene	In end-exhaled air	Prior to shift (16 hours after exposure ceases)	3 parts per million	ACGIH BEI
Trichloroethylene	79-01-6	Trichloroacetic acid	Urine	End of shift at end of workweek	15 mg/l	ACGIH BEI
Trichloroethylene		Trichloroethanol	In blood	End of shift at end of workweek	5 mg/l	ACGIH BEI
Trichloroethylene		Trichloroethylene	In blood	End of shift at end of workweek		ACGIH BEI
trichloroethylene		Trichloroethylene	In end-exhaled air	End of shift at end of workweek		ACGIH BEI

PERSONAL PROTECTIVE EQUIPMENT:



EYE PROTECTION: Eyewash bottle with pure water. Tightly fitting safety goggles. Wear face-shield and protective suit for abnormal processing problems.

SKIN PROTECTION: The suitability for a specific workplace should be discussed with the producers of the protective gloves. Impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

RESPIRATORY PROTECTION: In the case of vapour formation use a respirator with an approved filter. In the case of dust or aerosol formation use respirator with an approved filter.

GENERAL HYGIENE MEASURES: When using, do not eat or drink. When using, do not smoke. Wash hands before breaks and at the end of workday.

9. Physical & Chemical Properties			
Appearance:	Aerosol containing a compressed gas	Flammability:	The product is not flammable.
Color:	Opaque, brown.	Explosive Limit – lower (%):	No data available.
Odor:	Solvent-like.	Explosive Limit – upper (%):	No data available.
Odor Threshold:	No data available.	Vapor Pressure:	No data available.
pH:	Not applicable.	Density:	1.42 g/cm ³
Melting/Freezing Point:	No data available.	Relative Vapor Density:	No data available.
Boiling Point:	No data available.	Solubility (water):	Insoluble.
Partition Coeff (n-octanol/water):	No data available.	Heat of Combustion:	10.20 kJ/g
Viscosity, kinematic:	No data available.	Evaporation Rate:	No data available.
Flash Point:	No data available.	Solubility in other Solvents:	Not determined.
Thermal Decomposition:	No data available.	Auto-Ignition Temperature:	Not determined.

10. Stability & Reactivity Information	
REACTIVITY:	Stable.
CHEMICAL STABILITY:	Stable under normal conditions.
POSSIBILITY OF HAZARDOUS REACTIONS:	Vapours may form explosive mixture with air.
INCOMPATIBLE MATERIALS:	Oxidizing agents. Aluminium. Metals.
CONDITIONS TO AVOID:	Heat, flames and sparks.
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon oxides. Gaseous hydrogen chloride (HCl). Phosgene. Chlorine.

11. Toxicological Information

ACUTE ORAL TOXICITY:

Acute toxicity estimate : 3,317 mg/kg
Method: Calculation method.

ACUTE DERMAL TOXICITY:

Acute toxicity estimate : > 5,000 mg/kg
Method: Calculation method.

COMPONENTS:

tetrachloroethylene:

Acute oral toxicity:

Acute inhalation toxicity:

LD50 Oral rat: 2,629 mg/kg

LC50 rat: 34,200 mg/l

Exposure time: 8 h

LD50 Dermal rabbit: 5,000 mg/kg

Acute dermal toxicity:

trichloroethylene:

Acute oral toxicity:

Acute inhalation toxicity:

LD50 Oral rat: 4,920 mg/kg

LC50 mouse: 8450 ppm

Exposure time: 4 h

LD50 Dermal rabbit: > 20,000 mg/kg

Acute dermal toxicity:

SKIN CORROSION/IRRITATION:

Product:

Remarks: Irritating to skin.

SERIOUS EYE DAMAGE/IRRITATION:

Product:

Remarks: Severe eye irritation.

RESPIRATORY OR SKIN SENSITIZATION:

No data available.

GERM CELL MUTAGENICITY:

No data available.

CARCINOGENICITY:

No data available.

REPRODUCTIVE TOXICITY:

No data available.

tetrachloroethylene:

trichloroethylene:

carbon dioxide:

STOT - single exposure:

No data available.

STOT - repeated exposure:

No data available.

ASPIRATION TOXICITY:

No data available.

FURTHER INFORMATION:

Product:

Remarks: No data available.

12. Ecological Information

ECOTOXICITY:

No data available.

PERSISTENCE AND DEGRADABILITY:

No data available.

BIOACCUMULATIVE POTENTIAL:

Product:

Partition coefficient: n- octanol/water: Remarks: No data available.

Components:

Tetrachloroethylene:

Partition coefficient: n- octanol/water: log Pow: 3.40

trichloroethylene :

Partition coefficient: n- octanol/water: log Pow: 2.29

MOBILITY IN SOIL:

No data available.

OTHER ADVERSE EFFECTS:

No data available.

Product:

Regulation:

40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks:

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional Ecological Information:

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life.

13. Disposal Consideration

WASTE FROM RESIDUES:

The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.

CONTAMINATED PACKAGING:

Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

14. Transportation Information

Transportation Regulation: 49 CFR (USA):

ORM-D, CONSUMER COMMODITY

Transportation Regulation: IMDG (Vessel):

UN1950, AEROSOLS, NON-FLAMMABLE, 2.2, - Limited quantity.

Transportation Regulation: IATA (Cargo Air):

UN1950, AEROSOLS, NON-FLAMMABLE, 2.2, - Limited quantity.

Transportation Regulation: IATA (Passenger Air):

UN1950, AEROSOLS, NON-FLAMMABLE, 2.2, - Limited quantity.

Transportation Regulation: TDG (Canada):

UN1950, AEROSOLS, NON-FLAMMABLE, 2.2, - Limited quantity.

15. Regulatory Information

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity:

Components	CAS #	Component RQ (lbs)	Calculated product RQ (lbs)
Tetrachloroethylene	127-18-4	100	134

SARA 304 Extremely Hazardous Substances Reportable Quantity:

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards:

Acute Health Hazard. Chronic Health Hazard. Sudden Release of Pressure Hazard.

SARA 302:

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313:

The following components are subject to reporting levels established by SARA Title III, Section 313:

Tetrachloroethylene	127-18-4	74.817%
Trichloroethylene	79-01-6	8.313%

CALIFORNIA PROP 65:

WARNING! This product contains a chemical known to the State of California to cause cancer.

Tetrachloroethylene 127-18-4

Trichloroethylene 79-01-6

The components of this product are reported in the following inventories:

TSCA: On TSCA Inventory.

DSL: All components of this product are on the Canadian DSL.

AICS: On the inventory, or in compliance with the inventory.

NZIoC: Not in compliance with the inventory.

PICCS: On the inventory, or in compliance with the inventory.

IECSC: On the inventory, or in compliance with the inventory.

Inventory Acronym and Validity Area Legend:

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

16. Other Information

N/A = Not Applicable; N/D = Not Determined

NFPA	Health Hazards: 2	Flammability: 1	Instability: 0	Physical & Chemical Properties:
HMIS	Health Hazards: 2	Flammability: 0	Physical hazards: 2	Personal protection:

DISCLAIMER:

To the best of our knowledge, information contained herein is accurate. However, there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard, which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product, which may not be covered by this SDS. The user is responsible for full compliance.