



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:	Aerosol Multipurpose Penetrant, Lubricant & 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 1B	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.
P251: Pressurized container: Do not pierce or burn, even after use.
P202: Do not handle until all safety precautions have been read and understood.
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P264: Wash skin thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
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: P410 + P403: Protect from sunlight. Store in a well-ventilated place.
P410 + P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.
Disposal: P501: Dispose of contents/container in accordance with local regulation.

3. Composition / Information on Ingredients

CHEMICAL NAME	CAS	Concentration % by Weight
Tetrachloroethylene	127-18-4	>= 70 - < 90
Trichloroethylene	79-01-6	>= 5 - < 10
Distillates (petroleum), hydrotreated heavy Naphthenic	64742-52-5	>= 5 - < 10
carbon dioxide	124-38-9	>= 1 - < 3

The exact percentages of disclosed substances are withheld as trade secrets.

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: Wash off with soap and water. 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.

MOST IMPORTANT SYMPTOMS & EFFECTS, BOTH ACUTE & DELAYED:

Effects are immediate and delayed. Symptoms may include irritation, redness, pain, and rash. Chronic effects are delayed and symptoms may not be observed during an exposure. Effects are dependent on exposure (dose, concentration, contact time). Causes skin irritation. Causes serious eye irritation. May cause cancer. Review Section 2 of SDS to see all potential hazards.

NOTES TO PHYSICIAN:

Treat symptomatically. Symptoms may be delayed.

5. Fire Fighting Measures

SUITABLE FIRE EXTINGUISHING MEDIA:

Foam. Carbon dioxide (CO₂).

UNSUITABLE FIRE EXTINGUISHING MEDIA:

High volume water jet.

HAZARDOUS COMBUSTION PRODUCTS:

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

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

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

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 FIRE FIGHTERS:

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 AND MATERIALS FOR CONTAINMENT & CLEANUP:

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:

Provide sufficient air exchange and/or exhaust in workrooms. Do not breathe vapours or spray mist. 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. Always replace cap after use.

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. 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.
Storage temperature: < 49°C.

8. Exposure Controls / Personal Protection

Components	CAS No	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
			170 mg/m ³	
		STEL	100 ppm	CAL PEL
			685 mg/m ³	
			C	300 ppm
	PEL	25 ppm	CAL PEL	
		170 mg/m ³		
trichloroethylene	79-01-6	TWA	10 ppm	ACGIH
		STEL	25 ppm	ACGIH
		TWA	100 ppm	OSHA Z-2
		CEIL	200 ppm	OSHA Z-2
		Peak	300 ppm	OSHA Z-2
		TWA	50 ppm	OSHA P0
			270 mg/m ³	
		STEL	200 ppm	OSHA P0
			1,080 mg/m ³	
			STEL	100 ppm
		537 mg/m ³		
	C	300 ppm	CAL PEL	
	PEL	25 ppm	CAL PEL	
		135 mg/m ³		
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	TWA (Mist)	5 mg/m ³	OSHA Z-1
		TWA (Inhalable fraction)	5 mg/m ³	ACGIH
Carbon dioxide	124-38-9	TWA	5,000 ppm	ACGIH
		STEL	30,000	ACGIH

		TWA	5,000 ppm 9,000 mg/m ³	NIOSH REL
		ST	30,000 ppm 54,000 mg/m ³	NIOSH REL
		TWA	5,000 ppm 9,000 mg/m ³	OSHA Z-1
		TWA	10,000 ppm 18,000 mg/m ³	OSHA P0
		STEL	30,000 ppm 54,000 mg/m ³	OSHA P0
		PEL	5,000 ppm 9,000 mg/m ³	CAL PEL
		STEL	30,000 ppm 54,000	CAL PEL

BIOLOGICAL OCCUPATIONAL EXPOSURE LIMITS:

Component	CAS No	Control Parameters	Biological Specimen	Sampling Time	Permissible Concentration	Basis
tetrachloroethylene	127-18-4	Tetrachloroethylene	In blood	Prior to shift (16 hours after exposure)	0.5 mg/l	ACGIH BEI
		Tetrachloroethylene	In end-exhaled air	Prior to shift (16 hours after exposure ceases)	3 ppm	ACGIH BEI
Trichloroethene	79-01-6	Trichloroacetic acid	Urine	End of shift at end of work week	15 mg/l	ACGIH BEI
		Trichloroethanol	In blood	End of shift at end of work week	0.5 mg/l	ACGIH BEI
		Trichloroethylene	In end-exhaled air	End of shift at end of work week		ACGIH BEI

APPROPRIATE ENGINEERING MEASURES:

Effective ventilation in all processing areas.

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

Respiratory Protection: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Hygiene Considerations: 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 (solid/gas):	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.	Auto-Ignition Temperature:	Not determined.
Flash Point:	No data available.	Thermal Decomposition:	No data available.
Evaporation Rate:	No data available.	Solubility (other solvents):	Not determined.
Heat of Combustion:	10.20 kJ/g.		

10. Stability & Reactivity Information

REACTIVITY:

Stable.

CHEMICAL STABILITY:

Stable under normal conditions

POSSIBILITY OF HAZARDOUS REACTIONS:

Vapors may form explosive mixture with air.

INCOMPATIBLE MATERIALS:

Oxidizing agents. Aluminium.

CONDITIONS TO AVOID:

Heat, flames and sparks.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon oxides. Gaseous hydrogen chloride (HCl). Phosgene. Chlorine.

11. Toxicological Information

POTENTIAL HEALTH EFFECTS:

Aggravated Medical Condition: None known.

Symptoms of Overexposure: Effects are immediate and delayed. Symptoms may include irritation, redness, pain, and rash. Chronic effects are delayed and symptoms may not be observed during an exposure. Effects are dependent on exposure (dose, concentration, contact time).

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: Tetrachloroethylene: 127-18-4

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: Known to be human carcinogen: Trichloroethylene: 79-01-6

Reasonably anticipated to be a human carcinogen: Tetrachloroethylene: 127-18-4

ACUTE TOXICITY:

Product: 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	Species	Test Results	Exposure Time
Tetrachloroethylene			
Acute			
<i>Dermal</i>	Rabbit	5,000 mg/kg	
LD50			
<i>Inhalation</i>			
LC50	Rat	34,200 mg/l	8 hours
<i>Oral</i>			
LD50	Rat	2,629 mg/l	8 hours
Trichloroethylene			
Acute			
<i>Dermal</i>			
LD50	Rabbit	>20,000 mg/kg	
<i>Inhalation</i>			
LC50	Mouse	8,450 ppm	4 hours
<i>Oral</i>			
LD50	Rat	4,920 mg/kg	
Distillates (petroleum), hydrotreated heavy naphthenic			
Acute			
<i>Dermal</i>			
LD50	Rabbit	>5,000 mg/kg	
<i>Inhalation</i>			
LC50	Rat	>5 mg/l	4 hours
<i>Oral</i>			
LD50	Rat	>5,000 mg/kg	

SKIN CORROSION/IRRITATION:

Irritating to skin.

SERIOUS EYE DAMAGE/IRRITATION:

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.

STOT - single exposure:

No data available.

STOT - repeated exposure:

No data available.

ASPIRATION TOXICITY:

No data available.

FURTHER INFORMATION:

No data available.

12. Ecological Information

ECOTOXICITY:

No data available.

PERSISTENCE AND DEGRADABILITY:

No data available.

BIOACCUMULATIVE POTENTIAL:

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

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

Components Partition coefficient: n- octanol/water: Trichloroethylene: 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. Dispose of in accordance with local regulations.

CONTAMINATED PACKAGING:

Empty remaining contents. Dispose of as unused product. Do not reuse 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

The product as delivered to the customer conforms to packaging requirements for shipment by road under US Department of Transportation (DOT) regulations. Additional transportation classifications noted above are for reference only, and not a certification or warranty of the suitability of the packaging for shipment under these alternative transport regulations.

15. Regulatory Information

TSCA LIST:

No substances are subject to a Significant New Use Rule.

The following substance(s) is/are subject to TSCA 12(b) export notification requirements:

Trichloroethylene: 79-01-6

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

CERCLA Reportable Quantity

Components	CAS No	Component RQ (lbs)	Calculated Product RQ (lbs)
Tetrachloroethylene	127-18-4	100	133

SARA 304 Extremely Hazardous Substances Reportable Quantity:

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

SARA 311/312 Hazards:

Gases under pressure.

Skin corrosion or irritation.

Serious eye damage or eye irritation.

Carcinogenicity.

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 CAS #127-18-4: 74.817 %

Trichloroethylene CAS #79-01-6: 8.313 %

CALIFORNIA PROP 65:



WARNING: This product can expose you to chemicals including tetrachloroethylene, trichloroethylene, which is/are known to the State of California to cause cancer, and trichloroethylene, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

THE COMPONENTS OF THIS PRODUCT ARE REPORTED IN THE FOLLOWING INVENTORIES:

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

TSCA: On TSCA Inventory.

For information on the country notification status for other regions please contact the manufacturer's regulatory group.

INVENTORY ACRONYM AND VALIDITY AREA LEGEND:

TSCA (USA), DSL (Canada), NDSL (Canada)

16. Other Information

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.