

# Material Safety Data Sheet



## PEN-T Penetrating Oil / Lubricant

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### Section I: Product Identification

Product name: PEN-T  
Synonym: Hydrocarbon-Based  
Cleaner and Lubricant  
Molecular Formula: Proprietary Information

### The "Plain English" Section

Material Safety Data Sheets can be confusing. Federal law requires us to print a great deal of technical information, which probably won't help the non-scientist. ECOLINK includes this "PLAIN ENGLISH" section, written to address the questions and concerns of the average person. If you have additional health, safety or product questions, don't hesitate to call us at 800/886-8240.

**Health Hazards:** PEN-T is an industrial chemical. We call it "environmentally preferred" because it is intended to replace products that are more hazardous, (1,1,1 trichloroethane, mineral spirits, MEK, etc.). This does not mean that PEN-T is completely harmless. It can irritate your skin. We suggest you wear gloves, and avoid extended exposure to unprotected skin. Don't get it in your eyes, or breath large amounts of the vapor, (it will dry out your nasal passages). Used on a rag or from a spray bottle, the product won't produce fumes in any great quantity, (don't spray PEN-T under high pressure without adequate ventilation). For more exposure and first aid information, refer to MSDS Sections II, VI.

**Flashpoint:** PEN-T's bulk flashpoint is 174° F. This represents the temperature that the liquid must reach before it emits fumes that will ignite. This is pretty hot, so combustion in ordinary use isn't a big concern. If PEN-T is used on rags, the rags can ignite if exposed to an open flame because the solvent is "wicked" onto the cloth. Be sure to dispose of rags in an airtight container specifically designed to prevent spontaneous combustion. Don't use PEN-T (or any other combustible solvent) around welding or any other hot work area, because it CAN ignite around a heat source.

**Disposal:** Because PEN-T'S flashpoint is above 140°F, PEN-T is not considered a hazardous waste product. If you spill PEN-T, notify the proper environmental or safety department at your company ASAP. Once PEN-T is contaminated with whatever you are cleaning, the resulting mixture may fall under a hazardous classification, depending on whether or not the material you are cleaning is hazardous. If you are not sure how to dispose of the used PEN-T give us a call and we will help you make the right decision.

### Section II: Hazardous Components

Chemical Name	Petroleum Hydrocarbon
CAS No.	64742-47-8
Approx. Wt. %	>90%
Exposure	ACGIH-TLV - 100 ppm OSHA-PEL - 100 ppm

RCRA REGULATED:	No
CERCLA (superfund):	N/A

ALL MATERIALS IN PRODUCT ARE TSCA LISTED.

#### ( Containers less than 110 gallons )

DOT regulated:	No
DOT haz. Class (aerosol):	N/A
DOT Shipping Name:	N/A
DOT number:	None Listed

(Questions concerning DOT information refer to DOT manual CFR 49, Chapter 1, 10/96 edition)

### Section III: Physical Data

Boiling Point	370° F @ 760 mm Hg
Color	Amber
Evaporation Rate (N-Butyl Acetate = 1)	<1
Odor	Mild Vanilla
Percent Volatile	92 %
Solubility in Water	Negligible
Specific Gravity	0.801
Vapor Density (Air=1):	>1
Vapor Pressure @ 100°F	<0.1 mm Hg
VOC Content	0 gm/liter

## Section IV: Fire & Explosion Hazard

Flash Point (Method):  
Bulk Liquid (TCC) 174°F

Flammable Limits:  
LEL Unknown  
UEL Unknown

Extinguishing Media:  
Regular foam, water fog, carbon dioxide, dry chemical, class B.

Special Fire Fighting Procedures:  
None.

Unusual Fire & Explosion Hazards:  
None.

## Section V: Reactivity Data

Stability: Stable

Conditions to Avoid:  
Temperature extremes.

Incompatibility (Materials To Avoid): Avoid contact with strong oxidizing agents.

Hazardous Decomposition:  
None.

Hazardous Polymerization:  
Will not occur.

## Section VI: Health Hazard Data

Hazard By Routes Of Exposure

Ingestion:  
Swallowing large amounts may be harmful, by causing gastrointestinal irritation.

Inhalation:  
Breathing large amounts may be harmful, by causing nose, throat, and respiratory tract irritation.

Eyes:  
Irritant. Liquid contact will irritate eyes and may cause stinging, tearing and redness.

Skin or Contact:  
May cause mild irritation of redness and burning.

First Aid:

Ingestion: Seek medical attention immediately. If individual is drowsy or unconscious, do not give anything by mouth; place individual on left side with head down. Contact medical facility or poison control center for advice about whether to induce vomiting.

Inhalation: Remove to fresh air, if breathing is difficult give oxygen. Keep person warm and quiet. Seek medical attention.

Eyes: Irrigate immediately with water for at least 15 minutes. Get medical attention if irritation persists.

Skin: Wash with soap and water. Thoroughly clean contaminated clothing and shoes before reuse. If symptoms persist, seek medical attention.

Carcinogen: NTP – Not Listed  
IARC Monographs – None  
OSHA REGS – Not Regulated

## Section VII: Precautions for Safe Handling

HMIS Information:  
Health – 1 / Reactivity – 0  
Flammability – 2 Personal Protection – B

HMIS Definition:  
0 – Minimal 1 – Slight 2 – Moderate 3 – Serious 4 – Extreme  
“/” in the Health Category denotes material does not target any major organs.  
“\*\*” In the Health Category denotes material may target certain organs.

Eye Protection  
Safety glasses and splash protection required.

Protective Gloves:  
Butyl rubber.

Respiratory Protection:  
Not required under conditions of normal use. If vapor mist is present use NIOSH certified organic vapor mask.

Ventilation: Local exhaust/hood or fan may be used.

Other Protective Clothing: None required under normal use.

Work Practices: Store rags used with this material in an air tight, metal container to prevent spontaneous combustion. Treat this chemical with respect and follow all MSDS instructions.

## Section VIII: Control Measures

Small Spill: Absorb liquid on vermiculite, floor absorbent, or other absorbent material.

Large Spill: Eliminate all ignition sources, (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams, etc. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Transfer contaminated absorbent, soil and other materials to containers for disposal.

Waste Disposal Method: Pen-T liquid is to be disposed of according to local, state, and federal regulations. Please call us if you need additional disposal information.

Precautions To Be Taken In Handling & Storing: Since empty containers retain product residues, all hazard precautions given in the data sheet must be observed. All metal pails or drums should be grounded and/or bonded when material is transferred. Any use of this product in elevated temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions. Sudden release of hot organic chemical vapors from process equipment operating at elevated temperature may result in ignition.

Other Precautions: Keep this and all chemicals out of the reach of children.

## Section IX: Part Number & Packaging

<u>Product Name</u>	<u>Part No.</u>	<u>Packaging</u>	<u>National Stock No.</u>
Pen-T	254-55	55 Gal Drum	9150-01-412-0036
Pen-T	254-5	5 Gal Pail	9150-01-412-0035
Pen-T	254-1	4 x 1 Gal Case	9150-01-411-9286
Pen-T	0325-1	12 x 22 oz Pump Spray	9150-01-412-0034

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END OF MSDS