

Material Safety Data Sheet



PEN-T Non-Flammable Penetrant Cleaner

Rev. 01/25/2000

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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 is strong enough to remove tough industrial soils, so 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 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 people 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: Chemical or Hazardous Components

Chemical Name	Petroleum Hydrocarbon
CAS No.	64742-96-7
Approx. Wt.%	>60%
Exposure	ACGIH-TLV - 500 ppm OSHA-PEL - 500 ppm

RCRA REGULATED: No
CERCLA (superfund): Not Applicable
ALL MATERIALS IN PRODUCT ARE TSCA LISTED.

(Containers less than 110 gallons)

DOT regulated: Not Regulated
DOT haz. Class (aerosol): ORM-D
DOT Shipping Name: Not Applicable
DOT number: None Listed

(containers more than 110 gallons)

DOT regulated: Yes
DOT haz. Class: Combustible Liquid
DOT Shipping Name: Combustible Liquid, N.O.S
(Petroleum Hydrocarbon)
DOT number: NA 1993

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

Section III: Physical Data

<u>Property</u>	<u>Bulk</u>
Autoignition Temperature	ASTM E-659
Boiling Point	370° F
Color	Amber
Evaporation Rate (N-Butyl Acetate = 1)	<1
Flash Point, Tag Closed Cup	174°F
Odor	Mild
Percent Volatile	92 %
Solubility in Water	Negligible
Specific Gravity (H ₂ O=1)	0.801
Vapor Density (Air=1):	6.6 mm Hg
Vapor Pressure @ 100°F	2 mm Hg
VOC Content	56 gm/liter

Section IV: Fire and Explosion Hazard Data

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 or mists 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 and Packaging

PART #	254-55
Unit Size	55 Gal. Drum
NSN #	9150-01-412-0036
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PART #	254-6
Unit Size	6 gal. Pail
NSN #	9150-01-412-0035
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PART #	254-1
Unit Size	4 x 1 gal.
NSN #	9150-01-411-9286
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PART #	0325
Unit Size	12 x 22 oz. Pump spray
NSN #	9150-01-412-0034

DISCLAIMER: Ecolink, Inc. believes the information contained herein is accurate. However, Ecolink makes no warranty, expressed or implied, regarding the accuracy of this data or the results to be obtained by the use thereof. Ecolink, Inc. assumes no responsibility for injury from the use of the product described herein.

END OF MSDS