

PRODUCT NAME: PEN

PENETRATING OIL USED IN S.B. GARAGE

Delivery: 800451939

MATERIAL SAFETY DATA SHEET

State Chemical Division # State Industrial Products 3100 Hamilton Avenue, Cleveland, OH 44114 (216) 861-7114

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Product Name: PEN 24 Hour Emergency CHEMTREC Number: 800-424-9300

Product Description: Penetrating oil. MSDS Number: 700129

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS Number	Weight	ACGIH	OSHA
Pentachloroethylen	127-18-4	< 80%	25 ppm	25 ppm
Heavy Naphthenic Petroleum 011	64742-52-5	< 10%	5 mg/m3 as mist	5 mg/m3 as mist
Mineral Oil 1	64741-88-4	< 15%	5 mg/m3 as mist	5 mg/m3 as mist
Propylene Glycol T-Butyl Ether	57018-52-7	< 12%	NE	NE
Carbon Dioxide	124-38-9	< 15%	5000 ppm	5000 ppm

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
Contents under pressure. Do not puncture, incinerate or expose to temperature above 120°F(49°C). Eye, skin and respiratory irritant. Harmful if inhaled.

POTENTIAL HEALTH EFFECTS Routes of Exposure: Exposure may be by inhalation and/or skin or eye contact. depending on conditions of use. To minimize exposure, follow recommendations for proper use, ventilation and personal protective equipment. Eye Contact: May cause eye irritation, redness and itching or burning sensation may indicate excessive exposure. Skin Contact: May cause skin irritation, redness and itching or burning sensation may indicate excessive exposure. Inhalation: May cause irritation of the respiratory system. May cause nervous system depression. Headache, nausea, dizziness and loss of coordination are indications of excessive exposure to vapors or spray mists. Extreme overexposure may result in unconsciousness and possibly death. General: Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

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4. FIRST AID MEASURES
Eye Contact: Promptly flush with a large amount of water for at least 15 minutes. If irritation persists, consult at physician. Skin Contact: Promptly wash with soap and water and rinse thoroughly. Remove contaminated clothing and launder before reuse. If irritation persists, consult a physician. Inhalation: Remove to fresh air. Restore breathing if necessary. If irritation persists, consult a physician. Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

5. FIRE FIGHTING MEASURES
Flashpoint (Method): No flame extension. Non-Flammable. Lower Explosive Limit(LEL): 1.8 Upper Explosive Limit(UHEL): 6.8 Autoignition Temperature: NA Fire and Explosion Hazards: Closed containers may explode, due to the build-up of pressure, when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention. Extinguishing Media: Carbon dioxide, dry chemical, foam. Fire Fighting Instructions: Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

6. ACCIDENTAL RELEASE MEASURES
Remove all sources of ignition. Ventilate and remove with inert absorbent. Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Do not incinerate. Depressurize container. Dispose of in accordance with all Federal, State and Local Regulations regarding pollution and waste disposal.

7. HANDLING AND STORAGE
Keep away from heat, flames, sparks or other sources of ignition. Consult NFPA Code. Use approved bonding and grounding procedures. Contents under pressure. Do not puncture, incinerate or expose to temperature above 120°F(49°C). Heat from sunlight, radiators, stoves, hot water and other heat sources could cause container to burst. Do not take internally. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Keep out of reach of children. Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION
Engineering Controls: Local exhaust preferable. General exhaust acceptable if the exposure to materials is maintained below applicable exposure limits. Personal Protective Equipment: Respiratory: If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted NIOSH-approved organic vapor/particulate respirator. Eye: Wear approved safety glasses with unperforated side shields. Skin: Wear chemically impervious gloves. Other: An emergency eyewash station or source of clean potable water should be available in case of accidental eye contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Brown, Odor: Strawberry. Physical State: Liquid aerosol. pH: NA
Product Weight: 11.14 lb/gal; 1335 g/l. Specific Gravity: 1.34 Boiling Point: < 0 - 307°F - < 18 - 152°C
VOC Content: < 50% Melting Point: NA Vapor Density: Heavier than air. Evaporation Rate: Faster than Ether.
Solubility in Water: NA

10. STABILITY AND REACTIVITY
Stability: Stable. Hazardous Polymerization: Will not occur. Conditions to Avoid: Heat, sparks, flames or other sources of ignition. Incompatibility: None expected. Hazardous Decomposition Products: By Fire: Carbon Dioxide, Carbon Monoxide, Hydrogen Chloride.

11. TOXICOLOGICAL INFORMATION
Pentachloroethylen is listed by NTP and IARC as an animal carcinogen and by OSHA as a potential human carcinogen. Hazardous Ingredients listed by NTP and IARC as animal carcinogens and by OSHA as potential human carcinogens:
Pentachloroethylen
Perchloroethylen
Heavy Naphthenic Petroleum 011
Mineral Oil 1
Propylene Glycol T-Butyl Ether
Carbon Dioxide

CAS Number	LD50	2629 mg/kg (oral rat)	5040 ppm / 8 hr (rat)
127-18-4	NE	NE	NE
64742-52-5	NE	NE	NE
64741-88-4	NE	NE	NE
57018-52-7	NE	NE	NE
124-38-9	NE	NE	Trout 240 mg/l/1 hour

12. ECOLOGICAL INFORMATION
Marine Pollutant.

13. DISPOSAL CONSIDERATIONS
Do not incinerate. Depressurize container. Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. RCRA Code for Perchloroethylen is U210. Dispose of in accordance with Federal, State and Local Regulations regarding pollution and waste disposal.

14. TRANSPORT INFORMATION
DOT Shipping Data: Consumer Commodity, ORM-D Canadian TDG: Shipped in accordance with 49 CFR as part of a nonhazardous shipment authorized under Section 5.2 (1) of the Canadian Transportation of Dangerous Goods. For International and Air Shipments: Aerosols, Non-Flammable, Containing Substances in Division 6.1, 2.2, UN1950, Marine Pollutant.

15. REGULATORY INFORMATION
TSCA: All ingredients in this product are listed or exempt from listing on the TSCA Chemical Inventory. CEPA: All ingredients in this product are listed or exempt from listing on the Canadian DSL/MSL. Proposition 65: This product contains a chemical known to the state of California to cause cancer, birth defects or other reproductive harm. (Perchloroethylen). SARA 313: This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40 CFR 372.65):

CHEMICAL	CASF	Weight
Perchloroethylen	127-18-4	75%

HMIS Classification: Health = 2 Flammability = 0 Reactivity = 0 Personal Protection = B HMIS Classification: Class D, Division 2B
NA = Not Available or Not Applicable. NE = Not Established.

16. OTHER INFORMATION
Read and follow all label directions and precautions before using the product. These products are intended for industrial and institutional use only. NOT FOR HOUSEHOLD USE OR RESALE KEEP OUT OF THE REACH OF CHILDREN.
While we believe that the data contained herein is factual and the opinions expressed are those of qualified experts, the data are not to be taken as a warranty or representation for which the company assumes legal responsibility. They are offered solely for your consideration, investigation, and verification. Any use of these data and information must be determined by the user to be in accordance with applicable Federal, State, and Local Laws and regulations.

HEALTH AND SAFETY INFORMATION: (216) 861-7114
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