



PENLUBE™ 401 AEROSOL

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Date Prepared: November 11, 2019
MSDS No.: 210087

SECTION 1: IDENTIFICATION

Product name: PENLUBE 401 AEROSOL

Recommended use: Lubricating, penetrating oil, bench top aerosol

Physical Description: Clear amber liquid with mild odor

Generic Ingredients: Aliphatic and aromatic hydrocarbons, surfactants, penetrating agents, propellant

Manufacturer:

Penetone Corporation
125 Kingsland Ave.
Clifton, NJ 07014
800-631-1652 or 201-567-3000

Business Contact:

Customer Service
800-631-1652 x2602 or 2272
Product Safety
800-631-1652 x2211 or 2257

Emergency Phone Numbers: **PENETONE 201-567-3000** **CHEMTREC 800-424-9300**

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

<p>Health: Skin irritation: 2 Eye irritation: 2B Specific target organ toxicity - single exposure: 3</p>	<p>Aspiration hazard: 1 Physical: Flammable aerosol: 1 Dissolved gas</p>
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DANGER!

Extremely Flammable Aerosol.
Contains Gas Under Pressure; May Explode if Heated.
May Be Fatal If Swallowed and Enters Airways.
Causes Eye and Skin Irritation.
May Cause Drowsiness or Dizziness.



Precautionary Statements:	
<p><u>Prevention:</u> Keep away from heat/sparks/open flames/hot surfaces.--No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Wear protective gloves and eye protection. Wash hands and exposed skin thoroughly after handling. Avoid breathing fumes, vapors or mists if inhalable mists occur during use. Use only outdoors or in a well-ventilated area.</p> <p><u>Response:</u> <i>If in eyes:</i> Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.</p>	<p><i>If on skin:</i> Wash with plenty of water. A mild soap may be used. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. <i>If inhaled:</i> Remove person to fresh air and keep comfortable for breathing. Call a poison center, doctor, emergency room or 911 if you feel unwell. <i>If swallowed:</i> Immediately call a poison center, doctor, emergency room, or 911. Do NOT induce vomiting.</p> <p><u>Storage:</u> Protect from sunlight. Keep cool. Do not expose to temperatures exceeding 50°C/122°F. Store locked up. Store in a well ventilated place.</p> <p><u>Disposal:</u> Dispose of contents/container in accordance with local, regional, and national regulations (see Sections 13 and 15 of SDS for disposal and reporting requirements).</p>

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Concentration Wt% (1)
Aliphatic petroleum naphtha	64742-89-8	35-55



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Aromatic petroleum hydrocarbons	64742-95-6	20-40
Ethanol	64-17-5	5-15
Mineral seal oil	64741-77-1	1-10
Neats foot oil	8002-74-2	1-10
Carbon dioxide	124-38-9	1-10

(1) Exact percentages being withheld under trade secret provision of OSHA HCS 1910.1200(i)

SECTION 4: FIRST-AID MEASURES

General Description of Symptoms & First-Aid Measures

Most likely work-place exposure routes will be *skin contact* or *inhalation*.

For *skin contact*, typically no immediate effects will be observed. Slight reddening or minor irritation could develop some time after exposure if product is not quickly washed off. For sensitive individuals, a rash may appear.

Inhalation exposure may produce varied effects, particularly if exposure occurs above the recommended workplace exposure limits (see SECTION 8). Typical symptoms would include headaches, dizziness, and drowsiness. In extreme cases, unconsciousness and other central nervous effects may occur.

Eyes

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists or develops: Get medical advice or attention. Penetone recommends that after any eye exposure a physician be seen immediately.

Ingestion

If swallowed: Immediately call a poison center, doctor, physician or other competent medical authority. Product presents an aspiration hazard. DO NOT INDUCE VOMITING.

Inhalation

If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center, doctor, physician or other competent medical authority if you feel unwell.

Skin

If on skin (or hair): Wash with plenty of water. A mild soap may be used. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention..

Special Treatment / Other

None

SECTION 5: FIRE FIGHTING MEASURES

Flammable Properties

Classification: 4 (for bulk liquid contents)

Flash Point: 150°F TCC, 190°F COC

Autoignition Temperature: not determined

Lower Flammable Limit: not determined **Upper Flammable Limit:** not determined

Specific Hazards

Flammable aerosol. Aerosol cans are under pressure. Exposure to temperatures above 120°F can cause bursting of cans. Containers can rupture and explode under fire conditions due to pressure and vapor buildup.

Extinguishing Media

Suitable: SMALL FIRE: Use dry chemical, carbon dioxide (CO₂), water spray or regular foam. LARGE FIRE: water spray, water fog, or foam.

Unsuitable: Do not use solid water stream as this may spread fire.



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Protection & Precautions for Firefighters

Protective Equipment & Clothing: Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters protective clothing will only provide limited protection.

Fire Fighting Guidance: Mist/spray can burn at temperatures below flash point. Cool containers with flooding quantities of water until well after fire is out. Move containers from fire area if you can do it safely. Dike fire control water for later disposal; do not scatter material. Containers can expand and explode under fire conditions due to vapor buildup. Always stay away from containers engulfed in fire.

Hazardous Combustion Products: Smoke, fumes, and oxides of carbon.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Land Spill

Eliminate sources of ignition. Do not touch or walk through spilled material. Stop leak if you can do it safely. For large spills, dike and pump into properly labeled containers for reclamation or disposal. For small spill, soak up with absorbent material and place in properly labeled containers for disposal.

Water Spill

Product consists of hydrocarbons, is lighter than water and not soluble in water. Product will float. Remove product from water surface by skimming or with suitable absorbents. Put into properly labeled containers for reclamation or disposal. If allowed by local environmental regulatory agencies, you may use a suitable dispersant. Check with local environmental regulatory agencies for reporting requirements.

See SECTION 8 for EXPOSURE CONTROLS and PERSONAL PROTECTION.

SECTION 7: HANDLING & STORAGE

Handling

Do not handle near heat, sparks, or flame. Avoid contact with oxidizing agents. Use only with adequate ventilation/personal protection (SEE section 8). Avoid contact with eyes, skin and clothing. After handling, always wash hands thoroughly with soap and water. Avoid personal contact with any residue. Dispose of empty containers with care. Empty containers can contain flammable residue and explosive vapors. **Do not cut, weld, or reuse empty container.**

Storage

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up. Do not store near heat, sparks, open flame, or other ignition sources. Do not store near strong oxidizing agents. Do not store in direct sunlight. Avoid storing above 120°F (49°C).

SECTION 8: EXPOSURE CONTROLS and PERSONAL PROTECTION

Engineering Controls

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.

Personal Protection

Inhalation A respiratory protection program that meets OSHA's 29 CFR 1910.134 or ANSI Z88.2 requirements must be followed whenever workplace conditions warrant respirator use. Use of an organic vapor mask or respirator is recommended.

Skin Wear chemical resistant gloves such as: rubber, nitrile, neoprene, or latex when skin contact is possible. Protective clothing including gloves, apron, sleeves, boots, head and face protection should be worn depending on



SAFETY DATA SHEET

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how the product is used. PPE should be cleaned thoroughly after each use.

Eyes Penetone recommends always wearing safety glasses as a minimum in any workplace. Conditions may warrant the use of chemical goggles and possibly a face shield. Consult your standard operating procedure or safety professional for advice. Use protective eye and face devices that comply with ANSI Z87.1-1987.

Additional Remarks

Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the hazards and/or potential hazards that may be encountered during use.

Occupational Exposure Limits

Component Name	Source	Value	Type	Notation	
Aliphatic petroleum naphtha	ACGIH	1,200 mg/m ³	TWA	Appendix H	
	NIOSH	350 mg/m ³	TWA		
		1,800 mg/m ³	C		15 minutes
	OSHA Z1	500 ppm	TWA		
Aromatic petroleum naphtha	ACGIH	100 mg/m ³	TWA	Appendix H	
	NIOSH	1,000 ppm	TWA		
Ethanol	ACGIH	1,000 ppm	TLV	ST	
	NIOSH	1,000 ppm	TWA		
Carbon dioxide	OSHA Z1	1,000 PPM	tw		
	ACGIH	5,000 ppm	TWA		
		30,000 ppm	STEL		
	NIOSH	5,000 ppm	TWA		
	OSHA	30,000 ppm	STEL		
		5,000 ppm	TWA		

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Appearance: clear amber liquid

Odor: mild

Odor Threshold: not determined

pH: not applicable

Melting Point / Freezing: less than 0°F (-18°C)

Boiling Point / Boiling Point Range: about 400°F

Flash Point: 150°F TCC

Evaporation Rate: <0.01 (n-butyl acetate = 1)

Flammability: not applicable

Lower Flammable Limit: not determined

Upper Flammable Limit: not determined

Explosive Properties: not applicable

Vapor Pressure: less than 1.0 mm Hg @ 20°C (68°F)

Relative Vapor Density: about 4

Relative Density: 0.82

Solubility (Water): partially soluble

Partition Coefficient (log K_{ow}): not determined

Auto-ignition temperature: not determined

Decomposition temperature: not determined

Viscosity: less than 5 centipoise at room temperature



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SECTION 10: STABILITY & REACTIVITY

Reactivity

Not reactive.

Chemical Stability

Stable under normal conditions.

Hazardous Reactions

No hazardous reactions or under normal storage conditions. Hazardous polymerization will not occur.

Conditions to Avoid

Product is a combustible liquid in an aerosol can. Do not store near sources of heat, sparks, open flame, or other ignition sources. Do not store in direct sunlight. Do not store above 50°C/122°F.

Incompatible Materials

Strong oxidizing agents.

Hazardous Decomposition Products

Carbon monoxide and dioxide when burned.

SECTION 11: TOXICOLOGICAL INFORMATION

Product Summary

Product is essentially non-toxic. May cause mild, short lasting discomfort to the eye. Prolonged or repeated exposure may dry the skin leading to discomfort and dermatitis. Vapor/aerosol concentrations above recommended exposure levels are irritating to the eyes and respiratory tract, and may cause headaches, dizziness, drowsiness, unconsciousness and other central nervous system effects. These results are not considered relevant to humans

NOTE: Values in this section refer only to the solvent.

Acute Toxicity:

Dermal: LD50 > 2,000 mg/kg rabbit (estimated using additivity formula)

Inhalation: no data available

Oral: LD50 > 5,000 mg/kg rat (estimated using additivity formula)

Skin Corrosion/Irritation

Mildly irritating to skin with prolonged exposure. Prolonged exposure may dry the skin leading to discomfort and dermatitis. Not considered irritating based on test data for structurally similar materials.

Serious Eye Damage/Irritation

May cause mild, short-lasting discomfort. Not considered irritating based on test data for structurally similar materials.

Sensitization - Respiratory or Skin

Not expected to be a skin sensitizer. Based on component data and data for structurally similar materials.

Germ Cell Mutagenicity

Not expected to be a germ cell mutagen. Based on test data for structurally similar materials.

Carcinogenicity

No component is listed as a carcinogen.

Reproductive Toxicity

No data available.



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Specific Target Organ Effects - Single Exposure

No data available.

Specific Target Organ Effects - Repeated or Prolonged Exposure

No data available.

Aspiration Hazard

Based upon available data and comparison to similar materials, if swallowed, may pose a lung aspiration hazard during vomiting. Lung aspiration may result in chemical pneumonitis, pulmonary edema, and damage to lung tissue or death.

SECTION 12: ECOLOGICAL INFORMATION

Product Summary

Product is a blend of hydrocarbon solvents and as such, will float on water and cause a sheen. The product is expected to be toxic to aquatic organisms. (Acute aquatic toxicity category 2 by European Union classification). The product is volatile and will evaporate to air, where it is expected to rapidly oxidize by photochemical reactions. It is not expected to partition to sediments and wastewater solids. The product is inherently biodegradable.

NOTE: Values in this section refer only to the solvent.

Ecotoxicity

Acute toxicity for aquatic vertebrates and invertebrates estimated to be 1-10 mg/l based (estimated using additivity formula)

Persistence and Degradability

Expected to be biodegradable. Transformation due to hydrolysis and photolysis not expected to be significant. Expected to degrade rapidly in air.

Bioaccumulative Potential

Not expected to bioaccumulate

Mobility in soil

Product expected to have low mobility

Other Adverse Effects

None known

SECTION 13: DISPOSAL CONSIDERATIONS

Product is a nonhazardous waste under RCRA definitions. Dispose of contents/container in accordance with all applicable federal, state, and local regulations

Note: Contaminated product, soil, water, container residues and spill cleanup materials may be hazardous wastes. Appropriate hazardous waste designation is the responsibility of the user.

SECTION 14: TRANSPORT INFORMATION

ID No.: UN1950
Proper Shipping Name: AEROSOLS
Hazard Class: 2.1
Packing Group: not applicable
Marine Pollutant: No



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RQ: No
Special Precautions: None

SECTION 15: REGULATORY INFORMATION

TSCA
 The ingredients in this product are listed on the TSCA inventory.

RCRA HAZARD CLASS
 D001 - Ignitable hazardous waste

SARA 311/312 REPORTABLE HAZARD CATEGORIES: Immediate (Acute) Health Fire

REPORTING REQUIREMENTS (all quantities in pounds)

Component	CAS / 313 Code	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	CAA 112(r) TQ	CWA / OPA
Product as a whole				(1)			(2)
(1) This material is not subject to any special reporting under the requirements of CERCLA. CERCLA petroleum exclusion applies for this product. Contact local authorities to determine if other reporting requirements apply. (2) This product subject to the reporting requirements under Section 311 of the CWA (40 CFR 110) and the OPA of 1990. Discharge or spills which produce a visible sheen on either surface water, or in waterways/sewers which lead to surface water, must be reported to the National Response Center at 800-424-8802.							

NEW JERSEY RIGHT-TO-KNOW INFORMATION:
 This product contains aromatic hydrocarbons (CAS# 64742-95-6), aliphatic hydrocarbons (CAS# 64742-89-8), mineral seal oil (CAS# 64741-77-1), ethanol (CAS# 64-17-5), neats foot oil (CAS# 8002-74-2), and carbon dioxide (CAS# 124-38-9).

CALIFORNIA PROPOSITION 65 INFORMATION
 This product does not contain any chemicals recognized by the state of California to cause cancer and/or birth defects or reproductive harm.

SCAQMD INFORMATION
 Is there a photochemically reactive material present? Yes
 What is the % by volume of photochemically reactive material? About 30
 What is the VOC content? 820/l
 What is the vapor pressure of VOC's? Less than 1.0 mm Hg @ 20°C (68°F)

SECTION 16: OTHER INFORMATION

REVISION SUMMARY
 Change in Section 1

SUPERSEDES ISSUE DATE
 September 2, 2015

HAZARD RATING SYSTEMS:

	HMIS	NFPA
HEALTH	1	1
FLAMMABILITY	2	2
REACTIVITY	0	0
	B	

KEY
 4 = Severe
 3 = Serious
 2 = Moderate
 1 = Slight
 0 = Minimal



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FOR ADDITIONAL PRODUCT INFORMATION, CONTACT YOUR SALES ENGINEER
FOR ADDITIONAL HEALTH/SAFETY INFORMATION, CALL 201-567-3000

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