



# SAFETY DATA SHEET

Penetone® Corporation, 125 Kingsland Ave., Clifton, NJ 07014

**PENMUL™ L460**

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Date Prepared: September 24, 2019  
SDS No.: 2610

## SECTION 1: IDENTIFICATION

**Product name:** PENMUL L460

**Recommended use:** Cleaning, degreasing

**Physical Description:** Clear amber liquid with mild solvent odor

**Generic Ingredients:** Water, aliphatic hydrocarbons, surfactants, alkanolamine, glycol ether

**Manufacturer:**

Penetone Corporation  
125 Kingsland Ave.  
Clifton, NNJ 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><b>Health:</b> Skin corrosion: 1C Eye damage: 1 Specific target organ toxicity - single exposure: 3</p>	<p>Aspiration hazard: 1</p> <p><b>Physical:</b> Flammable liquid: 4</p>
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**DANGER!**

Causes Severe Skin Burns and Eye Damage.  
May Be Fatal If Swallowed and Enters Airways.  
May Cause Drowsiness or Dizziness.  
Combustible Liquid.



<b>Precautionary Statements:</b>	
<p><u>Prevention:</u> Avoid breathing fumes or vapors. Do not breath mists if inhalable mists occur during use. Use only outdoors or in a well-ventilated area. Wear protective gloves, eye protection, and face protection. Wash hands and exposed skin thoroughly after handling. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.</p> <p><u>Response:</u> <i>In case of fire:</i> Use dry chemical, carbon dioxide, water spray, water fog, or foam. Do not use solid water stream as this may spread the fire. <i>If in eyes:</i> Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center, doctor, emergency room, or 911.</p>	<p><i>If on skin (or hair):</i> Take off immediately all contaminated clothing. Rinse skin with water or shower. A mild soap may be used. Wash contaminated clothing before reuse. <i>If inhaled:</i> Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center, doctor, emergency room or 911 if you feel unwell. <i>If swallowed:</i> Rinse mouth. Do NOT induce vomiting. Immediately call a poison center, doctor, emergency room, or 911.</p> <p><u>Storage:</u> Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.</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>



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### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Concentration Wt% (1)
Aliphatic petroleum naphtha	64742-47-8	25-40
Water	7732-18-5	25-40
Monoethanolamine	141-43-5	10-20
Alcohol ethoxylate	34398-01-1	1-10
2-Butoxyethanol	111-76-2	1-10
Potassium soap	61790-44-1	1-10
Pine oil	8002-09-3	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. Reddening, irritation, or a burning sensation could develop some time after exposure if product is not quickly washed off.

*Inhalation* exposure may produce varied effects depending on whether vapor or mist/spray is inhaled (see SECTION 8 for recommended workplace exposure limits). For vapor, typical symptoms would include headaches, dizziness, and drowsiness. In extreme cases, unconsciousness and other central nervous effects may occur. For mist/spray, typical symptoms could include coughing, sneezing, and a tingling or burning sensation in the nose, throat, and lungs.

#### Eyes

If in eyes: Rinse cautiously with water for several minutes. If contact lenses present, remove them if easy to do. Continue rinsing for several minutes. Immediately call a poison center, doctor, physician or other competent medical authority for medical advice. Penetone recommends that after any eye exposure and initial treatment a physician be seen immediately.

#### Ingestion

If swallowed: Rinse mouth. 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. Immediately call a poison center, doctor, physician or other competent medical authority for medical advice.

#### Skin

If on skin: Take off immediately all contaminated clothing. Rinse skin with water or shower. A mild soap may be used. Wash contaminated clothing before reuse. Immediately call a poison center, doctor, physician or other competent medical authority for medical advice. If skin irritation or rash occurs: Get medical advice or attention.

#### Special Treatment / Other

None

### SECTION 5: FIRE FIGHTING MEASURES

#### Flammable Properties

**Classification:** 4

**Flash Point:** 160°F TCC, 185°F COC



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

**Specific Hazards**

Combustible liquid. Can form combustible mixtures at or above the flash point. Although the product is combustible, it is water based and water dilutable and will self extinguish with addition of water.

**Extinguishing Media**

**Suitable:** SMALL FIRE: Use dry chemical, carbon dioxide (CO<sub>2</sub>), 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.

**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:** 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 and nitrogen when taken to dryness.

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## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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**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 forms emulsion with water which may make cleanup difficult. Avoid agitation to minimize emulsion formation. This product contains an organic base and has a pH >12 and will raise the pH of surface waters. 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.**

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## **SECTION 7: HANDLING & STORAGE**

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**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).



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## SECTION 8: EXPOSURE CONTROLS and PERSONAL PROTECTION

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### 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 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	1200 mg/m <sup>3</sup>	TWA	Appendix H  15 minutes
	NIOSH	350 mg/m <sup>3</sup>	TWA	
		1800 mg/m <sup>3</sup>	C	
Monoethanolamine	OSHA Z1	500 ppm	TWA	
	ACGIH	3 ppm	TLV	
2-Butoxyethanol		6 ppm	STEL	
	OHSA	3 ppm	PEL	
	ACGIH	20 ppm	TWA	
	NIOSH	5 ppm	TWA	
	OSHA	50 ppm	PEL	
		240 mg/m <sup>3</sup>	PEL	

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## SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

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**Appearance:** clear amber liquid

**Odor:** mild solvent

**Odor Threshold:** not determined

**pH:** about 12.5

**Melting Point / Freezing:** about 30°F

**Boiling Point / Boiling Point Range:** about 212°F

**Flash Point:** 160°F TCC, 185°F COC

**Evaporation Rate:** equal to water

**Flammability:** not applicable

**Lower Flammable Limit:** not determined

**Upper Flammable Limit:** not determined

**Explosive Properties:** not applicable

**Vapor Pressure:** equal to water, about 17 mm Hg @ 20°C



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**Relative Vapor Density:** not determined  
**Relative Density:** 0.92  
**Solubility (Water):** forms emulsion (stable for one to 12 hours)  
**Partition Coefficient (K<sub>ow</sub>):** not determined  
**Auto-ignition temperature:** not determined  
**Decomposition temperature:** not determined  
**Viscosity:** 20 to 50 cp at room temperature

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**SECTION 10: STABILITY & REACTIVITY**

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**Reactivity**  
Not reactive.

**Chemical Stability**  
Stable.

**Hazardous Reactions**  
None known.

**Conditions to Avoid**  
Combustible liquid. Do not store near sources of heat, sparks, open flame, or other ignition sources.

**Incompatible Materials**  
Strong oxidizing agents. Strong acids

**Hazardous Decomposition Products**  
Smoke, fumes, and oxides of carbon and nitrogen.

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**SECTION 11: TOXICOLOGICAL INFORMATION**

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**Product Summary**  
Product is corrosive to skin, eyes, and other tissue. Mists can be corrosive to the eyes and respiratory tract. Vapor concentrations above recommended exposure levels may cause headaches, dizziness, drowsiness, unconsciousness and other central nervous system effects.

**Acute Toxicity:**  
**Dermal:** Rabbits, LD50 > 2,500 mg/kg (estimated using additivity formula)  
**Inhalation:** no data available  
**Oral:** Rats, LD50 >2,000 mg/kg (estimated using additivity formula)

**Skin Corrosion/Irritation**  
No data available. Based upon tests of a similar product, product is considered corrosive to the skin.

**Serious Eye Damage/Irritation**  
No data available. Based upon tests of a similar product, product is considered corrosive to the eyes.

**Sensitization - Respiratory or Skin**  
No data available. Based upon component data, product not expected to be a skin sensitizer.

**Germ Cell Mutagenicity**  
No data available. Based upon component data, product not expected to exhibit germ cell mutagenicity.

**Carcinogenicity**  
Ethylene glycol monobutyl ether is listed by ACGIH as Group A3: confirmed animal carcinogen with unknown



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relevance to humans.

**Reproductive Toxicity**

No data available.

Monoethanolamine and the nonionic surfactant used in this product has produced effects in the fetus only at levels that were toxic to the parent animals.

Ethylene glycol monobutyl ether has been toxic to the fetus lab animals at doses toxic to the mother. Effects on reproduction have been seen only at doses that produced significant toxicity to the parent animal.

**Specific Target Organ Effects - Single Exposure**

No data available

**Specific Target Organ Effects - Repeated or Prolonged Exposure**

No data available.

Monoethanolamine: kidney and liver effects were found in the kidney and liver of lab animals at high feeding levels over extended periods of time.

Repeated exposure to ethylene glycol monobutyl ether has caused hemolysis and secondary effects on the kidney and liver in lab animals. Small but statistically significant increases in tumors were observed in mice but not rats. These effects are not believed to be relevant to humans.

**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.

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**SECTION 12: ECOLOGICAL INFORMATION**

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**Product Summary**

Based upon product data and data for a very similar product, product can be considered mildly toxic to aquatic organisms with LC50s generally in the range of 10-100 mg/l. (Acute aquatic toxicity category 2 by European Union classification).

**Ecotoxicity**

LC/EC/IC 10-100 mg/l (estimated using additivity formula)

**Persistence and Degradability**

Product components range in biodegradability from not readily to readily biodegradable. Similar products have had biodegradabilities greater than 80% by DOC (EPA 796.3100).

**Bioaccumulative Potential**

Product not expected to bioaccumulate due to its degradability.

**Mobility in soil**

Product is a complex mixture. Components will partition into water and soil phases depending on inherent solubility of component in water.

**Other Adverse Effects**

None known

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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Product is a D002 Corrosive Hazardous Waste under RCRA definitions. Dispose of contents/container in



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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.:** UN3267  
**Proper Shipping Name:** CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S., (contains ethanolamine)  
**Hazard Class:** 8  
**Packing Group:** III  
**Label:** CORROSIVE  
**Marine Pollutant:** No  
**RQ:** No  
**Special Precautions:** none

**SECTION 15: REGULATORY INFORMATION**

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

**RCRA HAZARD CLASS**  
D002 - Corrosive 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
1-Butoxyethanol	N230 Glycol ethers			(1)	313		
(1) CERCLA hazardous substance with no assigned RQ							

**NEW JERSEY RIGHT-TO-KNOW INFORMATION**  
This product contains aliphatic petroleum naphtha (CAS 64742-47-8), water (7732-18-5), monoethanolamine (CAS 141-43-5), alcohol ethoxylate (CAS# 34398-01-1), and 2-butoxyethanol (CAS 111-76-2).

**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? No  
 What is the % by volume of photochemically reactive material? 0  
 What is the VOC content? 510 g/l  
 What is the vapor pressure of VOC's? Less than 1 mm Hg @ 20°C



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## SECTION 16: OTHER INFORMATION

### REVISION SUMMARY

Change in Section 1

### SUPERSEDES ISSUE DATE

June 27, 2018

### HAZARD RATING SYSTEMS:

	<u>HMIS</u>	<u>NFPA</u>
HEALTH	2	2
FLAMMABILITY	2	2
REACTIVITY	0	0
	B	

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

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

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