SAFETY DATA SHEET
Penetone® Corporation, 125 Kingsland Ave., Clifton, NJ 07014

PENSOLV™ L1002

SECTION 1: IDENTIFICATION

Product name: PENSOLV L1002
Recommended use: Cleaner, degreaser
Physical Description: Clear water white liquid with mild odor
Generic Ingredients: Hydrocarbon solvent

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:

<table>
<thead>
<tr>
<th>Health</th>
<th>Physical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific target organ toxicity - single exposure: 3</td>
<td>Flammable liquid: 3</td>
</tr>
<tr>
<td>Aspiration hazard: 1</td>
<td></td>
</tr>
</tbody>
</table>

DANGER!
Flammable Liquid and Vapor.
May Be Fatal If Swallowed and Enters Airways.
May Cause Drowsiness or Dizziness.

Precautionary Statements:

Prevention:
Avoid breathing fumes, vapors or mists if inhalable mists occur during use. Use only outdoors or in a well-ventilated area.
Wear protective gloves, eye protection, and face protection.
Keep container tightly closed. Keep away from heat/sparks/open flames/hot surfaces.-No smoking.
Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating, lighting, and mixing equipment. Use only non-sparking tools. Take precautionary measure against static discharge.

Response:
In case of fire: Use dry chemical, carbon dioxide, water spray, water fog, or foam. Do not use solid water stream as this may spread the fire.

If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center, doctor, emergency room or 911 if you feel unwell.
If swallowed: Immediately call a poison center, doctor, emergency room, or 911. Do NOT induce vomiting.

Storage:
Store locked up. Keep container tightly closed.
Store in a well ventilated place. Keep cool.

Disposal:
Dispose of contents/container in accordance with local, regional, and national regulations (see Sections 13 and 15 of SDS for disposal and reporting requirements).

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS#</th>
<th>Concentration Wt%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aliphatic petroleum naphtha</td>
<td>64742-47-8</td>
<td>100</td>
</tr>
</tbody>
</table>
SECTION 4: FIRST-AID MEASURES

General Description of Symptoms & First-Aid Measures
Most likely workplace exposure routes will be skin contact or inhalation.

For skin contact, typically effects will be observed. Product is only mildly irritating to skin with prolonged exposure.

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
Rinse cautiously with water for several minutes. If contact lenses present, remove them if easy to do. Continue rinsing for several minutes. If eye irritation develops: Get medical advice or attention. Penetone recommends that after any eye exposure and initial treatment 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): Take off immediately all contaminated clothing. Rinse skin with water or shower. A mild soap may be used to wash skin. Wash contaminated clothing before reuse.

Special Treatment / Other
None

SECTION 5: FIRE FIGHTING MEASURES

Flammable Properties
Classification: 3
Flash Point: 103°F TCC
Autoignition Temperature: 450-460°F
Lower Flammable Limit: 0.6 Upper Flammable Limit: 5.7

Specific Hazards
Flammable liquid. Can form flammable mixtures at or above the flash point.

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.

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 is a hydrocarbon, 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 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.
**SECTION 9: PHYSICAL & CHEMICAL PROPERTIES**

**Appearance:** clear water white liquid  
**Odor:** mild hydrocarbon  
**Odor Threshold:** not available  
**pH:** not applicable  
**Melting Point / Freezing:** about -70°F  
**Boiling Point / Boiling Point Range:** initial about 300°F  
**Flash Point:** 103°F TCC  
**Evaporation Rate:** about 0.3 (n-butyl acetate = 1)  
**Flammability:** not applicable  
**Lower Flammable Limit:** 0.6%  
**Upper Flammable Limit:** 5.8%  
**Explosive Properties:** not applicable  
**Vapor Pressure:** 1.6 mm Hg @ 20°C (68°F)  
**Relative Vapor Density:** 4.5  
**Relative Density:** 0.77  
**Solubility (Water):** insoluble  
**Partition Coefficient (K_{ow}):** not determined  
**Auto-ignition temperature:** 450-460°F  
**Decomposition temperature:** not available  
**Viscosity:** 1 cSt at 40°C (104°F)

**SECTION 10: STABILITY & REACTIVITY**

**Reactivity**  
Product is stable and only reactive under extreme conditions (very high heat/pressure) or in the presence of specific incompatible materials (see below).

**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 flammable liquid. Do not store near sources of heat, sparks, open flame, or other ignition sources.

**Incompatible Materials**  
Strong oxidizing agents.

**Hazardous Decomposition Products**  
Carbon monoxide and dioxide.
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.

Acute Toxicity:
- **Dermal:** LD50 > 2,000 mg/kg rat; LD50 > 5,000 mg/kg rabbit
- **Inhalation:** LC50 > 5,000 mg/m³ (vapor) 8 hrs rat
- **Oral:** LC50 > greater than near-saturated vapor concentration 1hr rat

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 respiratory or skin sensitizer. Based on test 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
Not expected to cause cancer. Based on test data for structurally similar materials.

Reproductive Toxicity
Not expected to be a reproductive toxicant. Based on test data for structurally similar materials.

Specific Target Organ Effects - Single Exposure
Not expected to cause organ damage from a single exposure.

Specific Target Organ Effects - Repeated or Prolonged Exposure
Not expected to cause organ damage from prolonged or repeated exposure. Based on test data for structurally similar materials.

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 essentially insoluble in water in water. Product expected to be not toxic at the limit of its water solubility.

Ecotoxicity
Acute toxicities, LC0, EL0, NOECR > 1000 mg/l.

Persistence and Degradability
Expected to be readily biodegradable. Transformation due to hydrolysis and photolysis not expected to be significant. Expected to degrade rapidly in air.
Bioaccumulative Potential
Due to biodegradability, expected to have low bioaccumulative potential.

Mobility in soil
Expected to adsorb onto soil

Other Adverse Effects
None known

SECTION 13: DISPOSAL CONSIDERATIONS
Product is a D001 Ignitable Hazardous 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.: UN1268
Proper Shipping Name: PETROLEUM DISTILLATES, N.O.S.
Hazard Class: 3
Packing Group: III
Label: FLAMMABLE
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
D001 - Ignitable hazardous waste

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

REPORTING REQUIREMENTS (all quantities in pounds)

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS / 313 Code</th>
<th>Section 302 (EHS) TPQ</th>
<th>Section 304 EHS RQ</th>
<th>CERCLA RQ</th>
<th>Section 313</th>
<th>CAA 112(r) TQ</th>
<th>CWA / OPA</th>
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<tbody>
<tr>
<td>Aliphatic petroleum naphtha</td>
<td></td>
<td>(1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(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 is classified as an oil 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 aliphatic petroleum naphtha (CAS# 64742-47-8).

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? 770 g/l
What is the vapor pressure of VOC's? 1.6 mm Hg @ 20°C (68°F)

SECTION 16: OTHER INFORMATION

HAZARD RATING SYSTEMS:

<table>
<thead>
<tr>
<th></th>
<th>HMIS</th>
<th>NFPA</th>
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</thead>
<tbody>
<tr>
<td>HEALTH</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>FLAMMABILITY</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>REACTIVITY</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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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