LAMPLIGHT ORIGNAL LAMP OIL

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: ORIGINAL LAMP OIL
SYNONYMS: Medallion, Paraffinic, Naphthenic, Aliphatic Solvents
MANUFACTURER: Lamplight
ADDRESS: 4900 North Lilly Road, Menomonee Falls, WI 53051
(800) 645-5267  262-781-9590 (8:00 AM- 4:30 PM CST) M-F
EMERGENCY NUMBER: 1-800-308-7141 (Prosar)
For non-emergency and all other information call: 1-800-645-5267

2. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS Number</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrotreated Light Distillate</td>
<td>64742-47-8</td>
<td>100</td>
</tr>
</tbody>
</table>

Hazardous in Blend: Yes
See Section 8 for Exposure Guidelines and Section 15 for OSHA Classification

3. HAZARDS IDENTIFICATION

Emergency Overview
Water white, Colorless, Oily Liquid., Mild, Hydrocarbon odor.

FIRE OR EXPLOSION: CAUTION! COMBUSTIBLE LIQUID AND VAPOR May be ignited by heat, spark, or flames. Vapors may travel to a source of ignition and flash back. Container may explode in heat or fire.

HEALTH HAZARD: MAY CAUSE EYE OR SKIN IRRITATION. High vapor concentrations may cause headache, stupor, dizziness, or irritation of throat and eyes

EYES: Irritation may occur with prolonged exposure to concentrated vapors or contact with product.

SKIN: Repeated or prolonged contact can cause redness, irritation, and scaling of the skin (dermatitis). Normal care and personal hygiene should prevent skin effects.

INHALATION: Exposure to high concentration of vapors may result in headache and stupor.

INGESTION: Lung exposure to this product either by prolonged breathing of a mist or vomiting following ingestion, can lead to serious lung injury and possibly death.

(See section 11 for Toxicological Information).
4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, seek medical attention.

SKIN: Remove contaminated clothing and shoes. Wash affected area with mild soap. Call a physician if irritation occurs. Wash clothing before reuse.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration and seek medical attention immediately. Oxygen should only be administered by trained personnel.

INGESTION: DO NOT INDUCE VOMITING DUE TO ASPIRATION HAZARD. If vomiting occurs, lower head below knees to avoid aspiration. Seek medical attention immediately.

5. FIRE FIGHTING MEASURES

Flammable Properties

FLASH POINT / METHOD: 145°F (62.8° C) / ASTM D-56 (TCC).

NFPA RATINGS:
- Health: 0
- Flammability: 2
- Instability: 0

AUTOIGNITION TEMPERATURE:
No data available.

FLAMMABLE LIMITS IN AIR % BY VOLUME:
Upper percentage = 6%, Lower percentage = 1%.

FIRE AND EXPLOSION HAZARD:
Dense smoke may be generated while burning. Carbon monoxide, Carbon dioxide, and other oxides may be generated as products of combustion.

FIRE FIGHTING INSTRUCTIONS:
Water spray, carbon dioxide, dry chemical, or alcohol compatible foam is recommended.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE OF A SPILL OR LEAK:
Evacuate the area and eliminate all sources of ignition. Contain the spill if possible. Do not allow spill to enter into sewers or watercourses. Material may be picked up with a solid sorbent. Provide adequate ventilation during clean up. Dispose of only in accordance with local, state, and federal regulations.

CERCLA HAZARDOUS SUBSTANCE:

<table>
<thead>
<tr>
<th>Component</th>
<th>CERCLA RQ</th>
<th>Maximum Wt. %</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available.</td>
<td></td>
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</tbody>
</table>
7. HANDLING AND STORAGE

ELECTROSTATIC ACCUMULATION HAZARD:
Yes – ground all equipment.

USUAL SHIPPING CONTAINERS:
Drums, Tank cars, tank trucks.

STORAGE / TRANSPORT TEMPERATURE:
Do not transfer to unmarked containers. Store in cool, well-ventilated area in closed containers away from heat, sparks, open flame, or oxidizing materials.

STORAGE / TRANSPORT PRESSURE:
Ambient.

LOAD / UNLOAD TEMPERATURE:
Ambient.

STORAGE AND HANDLING MATERIALS:
Carbon steel is suitable.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls
Air contaminant levels should be controlled below the PEL or TLV for this product (see Exposure Guidelines of this section). Mechanical ventilation may be necessary if working with this product in enclosed areas and at elevated temperatures.

Personal Protective Equipment

EYES:
When contact with liquid is possible, use a face shield and chemical goggles. Otherwise use safety glasses or goggles.

SKIN:
Chemical gloves should be worn to prevent repeated contact. If potential for significant exposure to liquid exists, use full protective clothing and chemical boots.

RESPIRATORY PROTECTION:
NIOSH-approved organic vapor air-purifying respirator, self contained breathing apparatus, or air-supplied respirators dependent on concentration.
Exposure Guidelines:
No exposure limit has been set for exposure to vapors for this product. However, Lamplight and its suppliers recommend the ACGIH/OSHA/NIOSH – recommended limit of 5 mg/m³ (8-hour TWA) for exposure to mists of this product.

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA TWA</th>
<th>ACGIH TWA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrotreated Light Distillate</td>
<td>500 PPM</td>
<td>100 PPM</td>
</tr>
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</table>

TWA = Time Weighted Average (8hr.)

Carcinogenicity
No carcinogenic ingredients.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:
Colorless liquid

ODOR:
Mild hydrocarbon odor.

VAPOR PRESSURE (mm Hg.):
0.06 kPa (0.45mm Hg) @ 68° F (20° C).

BOILING POINT:
374-412° F (190-211° C).

VAPOR DENSITY (Air=1):
6.2

MELTING POINT:
No data available.

SOLUBILITY IN WATER:
Insoluble in water

SPECIFIC GRAVITY (H₂O = 1):
.794

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY:
Stable

CONDITIONS TO AVOID:
Heat, Sparks, Flame.

HAZARDOUS DECOMPOSITION PRODUCTS:
Combustion products include carbon dioxide, carbon monoxide and possibly other unidentified organic compound.

HAZARDOUS POLYMERIZATION:
Stable.
11. TOXICOLOGICAL INFORMATION

ANIMAL DATA:
Animal studies have shown that prolonged or repeated inhalation exposures to high concentrations of some petroleum distillates have caused liver tumors in mice and kidney damage and tumors in male rats. However, kidney effects were not seen in similar studies involving female rats, guinea pigs, dogs, or monkeys. Present studies indicate the kidney effects will only occur in male rats. Also, human studies do not indicate this peculiar sensitivity for kidney damage and studies reported in 1992 showed that this particular type of rat kidney damage is not useful in predicting a human health hazard. The significance of liver tumors in mice exposed to high doses of chemicals is highly speculative and probably not a good indicator for predicting a potential human carcinogenic hazard.

Mouse skin painting studies have shown that petroleum middles distillates (boiling range of 100 -700° F; naphtha, jet fuel, diesel fuel, kerosene, etc.) can cause skin cancer when repeatedly applied and never washed from the animals skin. The relative significance of this to human health is uncertain since the petroleum distillates were never washed from the animal's skin. The relative significance of this to human health is uncertain since the petroleum distillates were not washed from the skin and resulting skin effects (irritation, cell damage, etc.) may play a role in the tumorigenic response. A few studies have shown that washing the animal's skin with soap and water between treatments greatly reduces the carcinogenic effect of some petroleum oils. Other laboratory studies indicate that middle distillates caused the skin tumors by promoting, rather than initiating, the formation of tumors. So the effects are probably dose related and low level exposure should not be carcinogenic.

CARCINOGENIC INFORMATION:
None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:
Not Available.

CHEMICAL FATE INFORMATION:
Not Available.

13. DISPOSAL CONSIDERATIONS

SPECIAL INSTRUCTIONS:
Evacuate the area and eliminate all sources of ignition. Contain the spill and absorb with an inert material if possible. Dispose of only in accordance with local state, and federal regulations.

WASTE CLASSIFICATION:
If discarded in its purchased form, this product is not a RCRA hazardous waste. Liquids with a flash point below 140° F have the RCRA characteristic of ignitability and are classed as hazardous for disposal purposes. This product should be evaluated at the time of disposal, since the product uses,
transformations, and contamination that may occur during use may result in classification to a hazardous waste for reasons other than, and in addition to ignitability.

EMPTY CONTAINERS:
Empty containers retain product residue (liquid and/or vapor) can be dangerous. DO NOT PRESSURIZE, CUT WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or properly disposed of. (See Section 6 for CERCLA Reporting Requirements).

14. TRANSPORT INFORMATION

DOT DESCRIPTION:
Highway / Rail (Bulk): Petroleum distillates, n.o.s., combustible, UN1268, III
Highway / Rail (Non-Bulk): Not regulated.

ICAO / IATA DESCRIPTION:
This product is not a dangerous good as defined by IATA for air transportation.

IMO DESCRIPTION (IMDG CODE):
This product is not a dangerous good as defined by IMO in the IMDG Code for water transportation.

15. REGULATORY INFORMATION

U.S. Federal Regulations

OSHA HAZARD COMMUNICATION STANDARD CLASSIFICATION:
Combustible liquid as defined by the OSHA Hazard Communication Standard.

TSCA INVENTORY LISTING:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (Petroleum), Hydrotreated Light</td>
<td>64742-47-8</td>
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SARA 302 STATUS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>Maximum Wt. %</th>
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<tbody>
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Contains no chemicals subject to SARA 302 reporting.

SARA 311 / 312 CATEGORIES:

<table>
<thead>
<tr>
<th>Category</th>
<th>Status</th>
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</thead>
<tbody>
<tr>
<td>Acute</td>
<td>X</td>
</tr>
<tr>
<td>Chronic</td>
<td>X</td>
</tr>
<tr>
<td>Fire</td>
<td>X</td>
</tr>
<tr>
<td>Reactive</td>
<td></td>
</tr>
<tr>
<td>Not Regulated</td>
<td></td>
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</tbody>
</table>
SARA 313 CHEMICALS:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>Maximum Wt. %</th>
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</thead>
<tbody>
<tr>
<td>Contains no chemicals subject to SARA 313 reporting.</td>
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</table>

(See Section 6 for CERCLA Reporting Requirements.)

### International Regulations

**WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS) CLASSIFICATION:**
Class B, Division 3: Combustible Liquid.

**CANADIAN DOMESTIC SUBSTANCE LIST (DSL) INVENTORY LISTING:**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
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<tbody>
<tr>
<td>Distillates (Petroleum), Hydrotreated Light</td>
<td>64742-47-8</td>
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</table>

**EUROPEAN INVENTORY OF EXISTING COMMERCIAL SUBSTANCES (EINECS) LISTING:**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>EINECS Number</th>
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<tbody>
<tr>
<td>Distillates (Petroleum), Hydrotreated Light</td>
<td>2651498</td>
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**JAPANESE MINISTER OF INTERNATIONAL TRADE AND INDUSTRY (MITI) INVENTORY LISTING:**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Section Structure #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residual oil from refining or cracking of petroleum</td>
<td>9-19</td>
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</tbody>
</table>

**AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES (AICS) LISTING:**

<table>
<thead>
<tr>
<th>Chemical Name</th>
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<tr>
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### State Regulations

**CALIFORNIA SAFE DRINKING WATER ACT (PROP 65) LISTING:**

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>No ingredients listed in this section</strong></td>
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</table>
16. OTHER INFORMATION

Hazard Ratings

<table>
<thead>
<tr>
<th>NFPA</th>
<th>HMIS</th>
</tr>
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<tbody>
<tr>
<td>Health:</td>
<td>1</td>
</tr>
<tr>
<td>FLAMMABILITY:</td>
<td>2</td>
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<tr>
<td>REACTIVITY:</td>
<td>0</td>
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Revision Summary

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
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<tbody>
<tr>
<td>Jan 10, 2002</td>
<td>Document created.</td>
</tr>
<tr>
<td>June 28, 2002</td>
<td>Added Emergency numbers (Prosar) and Non emergency contact number.</td>
</tr>
<tr>
<td>January 9, 2007</td>
<td>Updated section 1</td>
</tr>
<tr>
<td>April 14, 2010</td>
<td>Updated sections 8, 9 and 16</td>
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</tbody>
</table>

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PREPARED BY: LAMPLIGHT FARMS Engineering Department.
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