16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>Hazard Categories</th>
<th>NFPA</th>
<th>HMIS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>0</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>
<tr>
<td>Instability</td>
<td></td>
<td>0</td>
</tr>
</tbody>
</table>

Revision Summary

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan 10, 2002</td>
<td>Document created.</td>
</tr>
<tr>
<td>June 18, 2002</td>
<td>Add 1 emergency number (Phone) and Non emergency contact number.</td>
</tr>
</tbody>
</table>
SARA 313 CHEMICALS:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>Maximum Wt. %</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Contains no chemicals subject to SARA 313 reporting.

(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>
</tr>
</thead>
<tbody>
<tr>
<td>(Paraffin), Hydrotreated Light</td>
<td>64743-47-9</td>
</tr>
</tbody>
</table>

**European Inventory of Existing Commercial Substances (EINECS) Listing:**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Paraffin), Hydrotreated Light</td>
<td>2801446</td>
</tr>
</tbody>
</table>

**Japanese Minister of International Trade and Industry (MITI) Inventory Listing:**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residual oil from refining or cracking of petroleum</td>
<td>9-10</td>
</tr>
</tbody>
</table>

**Australian Inventory of Chemical Substances (AICS) Listing:**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Paraffin), Hydrotreated Light</td>
<td>64743-47-9</td>
</tr>
</tbody>
</table>

**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></td>
<td></td>
</tr>
</tbody>
</table>

**No ingredients listed in this section.**
transformation and contamination that may occur during use may result in classification as a hazardous waste for reasons other than, and in addition to, ignitability.

EMPTY CONTAINERS:
Empt containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAKE, MOLD, HEAT, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAMES, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty cylinders should be completely drained, properly banded and properly returned to a Gauss reconditioner, or properly disposed of.
(See Section 5 for CERCLA Reporting Requirements).

14. TRANSPORT INFORMATION
DOT DESCRIPTION:
Highway / Rail (Bulk), Petroleum distillates, n.a.s., combustible, UN 1982, 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 (IMO 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.

TECS INVENTORY LISTING:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diacacetate (Petroleum), Hydrogenated Light</td>
<td>64742-47-4</td>
</tr>
</tbody>
</table>

SARA Title 312 STATUS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>Maximum Wt. %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conforms to no chemicals subject to SARA 312 reporting.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SARA 311/312 CATEGORIES:

- Acute: X
- Chronic: X
- Fire: X
- Reactor: No Regulated.

- 6 -
11. TOXICOLOGICAL INFORMATION

ANIMAL DATA:
Animal studies have shown that prolonged or repeated inhalation exposure to high concentrations of some petroleum distillate 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 were only noted in male rats. Also, human studies do not indicate this particular sensitivity for kidney damage and studies reported in 1992 showed that this particular type of kidney damage is not useful in predicting a human health hazard. The significance of liver tumors in mice cannot be extended to high doses of chemicals in higher speculatively and probably not a good indicator for predicting a potential human carcinogenic hazard.

Mouse skin painting studies have shown that petroleum middle distillate (boiling range of 150-200°F) among others, skin cancer when repeatedly applied and never washed from the animals skin. The relative significance of this in human health is uncertain since the petroleum distillates were never washed from the animals skin. The relative significance of this in 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 carcinogenic response. A few studies have shown that washing the animals skin with soap and water between exposures greatly reduces the carcinogenic effect of some petroleum oils.

Other laboratory studies indicate that middle distillates caused weaker tumors by repeatedly, rather than indicated, the formation of tumors. So the effects may probably time 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 throw with an inert material if possible. Dispose of only in accordance with local, state, and federal regulations.

WASTE CLASSIFICATION:

If disposed in a manner from this product is not a RCRA hazardous waste. Looped with a flash point above 140°F have the RCRA characteristics of ignitability and are classified as hazardous for disposal purposes. This product should be evaluated at the time of disposal, times the product used.
**Exposure Guidelines:**

No exposure limit has been set for exposure to **vapor** for this product. However, Lamplight and its suppliers recommend the ACGIH/OSHA/NIOSH Recommended limit of 5 mg/m³ (about TWA for exposure to **vapor** of this product.

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>TWA</td>
<td>500 mg/m³, 2000 cp/m³</td>
<td>N/A Established.</td>
</tr>
</tbody>
</table>

**Carcinogenicity:**

No carcinogenic ingredients.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE:**
Colorless liquid

**ODOR:**
Mild hydrocarbon odor.

**VAPOR PRESSURE** (mean kpa):
0.5 @ 68°F (20°C).

**VAPOR DENSITY (Air=1):**
6.3

**SOLUBILITY IN WATER:**
Insoluble in water

**VISCOITY:**
1.46 cSt @ 104°F (40°C)

**PHYSICAL STATE:**
Liquid.

**BOILING POINT:**
370-470°F (188-245°C).

**MELTING POINT:**
No data available.

**SPECIFIC GRAVITY (H₂O = 1):**
0.81-0.82 @ 60°F (16°C)/1°F.

**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 compounds.

**HAZARDOUS POLYMERIZATION:**
Stable
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 uninsulated 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 skin-fifteen 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.
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).

AUTONIGNITION TEMPERATURE: No data available.

FLAMMABLE LIMITS IN AIR % BY VOLUME:

Upper percentage = 6%, Lower percentage = 1%.

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

FIREFIGHTING INSTRUCTIONS:

Wear gas mask, carbon dioxide, dry chemical, or alcohol extinguishable 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 sewers or watercourses. Equip spill may be picked up with a solid sorbent. Provide adequate ventilation during clean up. Dispose of only as directed by local, state, and federal regulations.

Hazardous Substances:

No data available.

CERCLA HAZARDOUS SUBSTANCE:

CERCLA NO. Maximum Wt. %

No data available.
MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: ORIGINAL LAMP OIL
SYNONYM: Modallion, C-145 Paraffinic, Naphthenic, Aliphatic Solvents

MANUFACTURER: Lamplight
ADDRESS: 4900 N. Lilly Road, Menomonee Falls, WI 53051
(800) 645-5267 (262) 781-9510 (8:00 AM - 4:30 PM CST) M-F

EMERGENCY NUMBER: 1-800-388-7141 (Prestar)
For non-emergency and all other information call: 1-800-645-5267

2. COMPOSITION / INFORMATION ON INGREDIENTS

Components CAS Number Weight %
Hydrosteared Light Distillate 6474-2-47-8 99
Hazardous by Blend: Yes

See Section 8 for Exposure Guidelines and Section 11 for OSHA Classification

3. HAZARDS IDENTIFICATION

Emergency Overview
Liquid, Oily Liquid, Mildly decolorizer.
FRAGILE OR EXPLOSIVE: CAUTION! COMBUSTIBLE LIQUID AND VAPOR. MAY BE IGNITED BY HEAT, SPARKS, OR FLAMES. VAPORS MAY FORM A SOURCE OF IGNITION AND EXPLOSION. CONTAINER MAY EXPLODE IN HEAT OR FIRE.

HEALTH HAZARD: MAY CAUSE EYE OR SKIN IRRITATION. HIGH VAPOR CONCENTRATIONS MAY CAUSE HEADACHE, SNEEZE, DISCOMFORT, OR IRRITATION OF NOSE AND EYES.

EYES: Irritation may occur with prolonged exposure in 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 concentrations of vapors may result in headache and drowsiness.

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

See section 71 for Toxicological Information.