Material Safety Data Sheet

Revision Date 16-Dec-2013

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

<table>
<thead>
<tr>
<th>Product code</th>
<th>19910</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
<td>Kwikee Penetrating Oil</td>
</tr>
<tr>
<td>Recommended Use</td>
<td>Lubricant</td>
</tr>
</tbody>
</table>
| Supplier | Lawson Products, Inc.  
8770 W.Bryn Mawr Ave.- Suite 900  
Chicago, IL 60631  
1-866-552-9664 |
| Emergency telephone number | (888) 426-4951 |

2. HAZARDS IDENTIFICATION

Emergency Overview
Flammable. Contents under pressure. Irritating to eyes. Irritating to skin.

Aggravated Medical Conditions
None Known

Principal Routes of Exposure
Eyes. Skin. Inhalation.

Potential health effects

- **Eyes**: Exposure to vapors or mists may cause the following effects: Irritation. Reddening. Itching. Burning sensation.
- **Skin**: Repeated or prolonged exposure may cause: Skin irritation. Redness. Itching. Burning sensation.
- **Ingestion**: No information available.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetrachloroethylene</td>
<td>127-18-4</td>
<td>40-70</td>
</tr>
<tr>
<td>Butane</td>
<td>106-97-8</td>
<td>7-13</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>7-13</td>
</tr>
<tr>
<td>Solvent naphtha (petroleum), medium aliphatic</td>
<td>64742-88-7</td>
<td>7-13</td>
</tr>
<tr>
<td>Petroleum distillates, hydrotreated heavy naphthenic</td>
<td>64742-52-5</td>
<td>3-7</td>
</tr>
<tr>
<td>Petroleum distillates, solvent-refined light paraffinic</td>
<td>64741-89-5</td>
<td>1-5</td>
</tr>
<tr>
<td>n-Butyl alcohol</td>
<td>71-36-3</td>
<td>0.5-1.5</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

- **Eye contact**: Flush with plenty of water for at least 15 minutes. Seek medical attention.
- **Skin contact**: Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use.
- **Ingestion**: Do Not induce vomiting. Seek medical attention immediately.
- **Inhalation**: Remove to fresh air. Restore breathing. Keep warm and quiet.

5. FIRE FIGHTING MEASURES

- **Flash point °C**: < -17.78
- **Flash point °F**: < 0
- **Method**: Tag Closed Cup
- **Autoignition temperature °C**: No data available
- **Autoignition temperature °F**: No data available
- **Flammability Limits (% in Air)**
  - **Upper**: 11.2
  - **Lower**: 1.0

Specific Information for Aerosol Products

- **Flame extension**: 30” w/o extension tube; 36” w/ extension tube
- **Flashback**: None

Suitable extinguishing media
Carbon dioxide (CO2). Dry chemical. Foam.

Special protective equipment for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
Fire and Explosion Hazards
Containers may vent or burst under extreme or prolonged fire conditions. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water should be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

Sensitivity to shock
No information available.

Sensitivity to static discharge
No information available.

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up
Eliminate all sources of ignition. Ventilate area to maintain exposure below permissible exposure limits. Soak up with inert absorbent material. Dispose of absorbent in accordance with local, state and federal regulations.

7. HANDLING AND STORAGE

Handling
Keep away from open flames, hot surfaces and sources of ignition. Vapors may accumulate readily and may ignite explosively. Turn off other sources of ignition prior to use and until all vapors have dissipated. Ensure adequate ventilation. Do not smoke. Check to make sure that all equipment is properly grounded and installed to satisfy electrical classification requirements. Thoroughly wash hands and exposed skin after handling. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Contents under pressure. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Do not puncture or incinerate. Do not take internally. Keep out of reach of children.

Storage
Store in temperatures below 120 degrees F (50 degrees C).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>OSHA PEL (TWA)</th>
<th>OSHA PEL (Ceiling)</th>
<th>ACGIH OEL (TWA)</th>
<th>ACGIH OEL (STEL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propane</td>
<td>1000 ppm</td>
<td>-</td>
<td>1000 ppm</td>
<td>-</td>
</tr>
<tr>
<td>Butane</td>
<td>800 ppm</td>
<td>-</td>
<td>-</td>
<td>1000 ppm</td>
</tr>
<tr>
<td>Solvent naphtha (petroleum), medium aliphatic</td>
<td>100 ppm</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Tetrachloroethylene</td>
<td>100 ppm</td>
<td>200 ppm</td>
<td>25 ppm</td>
<td>100 ppm</td>
</tr>
<tr>
<td>Petroleum distillates, solvent-refined light paraffinic</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Ventilation and Environmental Controls
Use enough ventilation, local exhaust at the work area, general, or both, to keep below the TLV's in the worker's breathing zone and the general area. Local: recommended.

Hygiene measures
Avoid contact with skin, eyes and clothing. Wash hands after handling the product.

Other precautions
Avoid breathing vapors or mists.

Respiratory protection
If the exposure limits are exceeded, a NIOSH/MSHA approved respirator is recommended. Wear a NIOSH approved organic vapor/particulate respirator.

Hand Protection
Gloves are not required in normal use. The following gloves are recommended for prolonged or repeated contact: Chemical resistant gloves.

Eye protection
Wear safety glasses with side shields.

Skin and body protection
None necessary under normal conditions

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Aerosol</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless</td>
</tr>
<tr>
<td>Odor</td>
<td>Solvent</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No information available</td>
</tr>
<tr>
<td>pH</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.00</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Density</td>
<td>8.33 lb/gal; 998 g/l</td>
</tr>
<tr>
<td>Vapor density</td>
<td>&gt;Air</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>&gt;1 (Ether =1)</td>
</tr>
<tr>
<td>Water solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>VOC Content</td>
<td>30.00%</td>
</tr>
<tr>
<td>Partition Coefficient (n-octanol/water)</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point/range °C</td>
<td>&lt; -18 - 201</td>
</tr>
<tr>
<td>Boiling point/range °F</td>
<td>&lt; -0 - 395</td>
</tr>
<tr>
<td>Melting point/range °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point/range °F</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point °C</td>
<td>&lt; -17.78</td>
</tr>
<tr>
<td>Flash point °F</td>
<td>&lt; 0</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY
10. STABILITY AND REACTIVITY

Stability
Stable.

Conditions to avoid
None known.

Incompatibility
None known.

Hazardous Decomposition Products

Polymerization
Will not occur.

11. TOXICOLOGICAL INFORMATION

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 (oral, rat)</th>
<th>LD50 (dermal, rat/rabbit)</th>
<th>LC50 (inhalation, rat)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propane 74-98-6</td>
<td>-</td>
<td>-</td>
<td>658 mg/L</td>
</tr>
<tr>
<td>Butane 106-97-8</td>
<td>-</td>
<td>-</td>
<td>658 g/m³</td>
</tr>
<tr>
<td>Solvent naphtha (petroleum), medium aliphatic 64742-88-7</td>
<td>5000 mg/kg</td>
<td>3000 mg/kg</td>
<td>5.28 mg/L</td>
</tr>
<tr>
<td>Tetrachloroethylene 127-18-4</td>
<td>2829 mg/kg</td>
<td>-</td>
<td>4000 ppm</td>
</tr>
<tr>
<td>Petroleum distillates, solvent-refined light paraffinic 64741-89-5</td>
<td>5000 mg/kg</td>
<td>5 g/kg</td>
<td>2.18 mg/L</td>
</tr>
<tr>
<td>Petroleum distillates, hydrotreated heavy naphthenic 64742-52-5</td>
<td>28710 mg/kg</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>n-Butyl alcohol 71-36-3</td>
<td>-</td>
<td>-</td>
<td>8000 ppm</td>
</tr>
</tbody>
</table>

Synergistic Products
None known

Specific Hazards
Reports have associated repeated and prolonged occupational exposure to solvents with permanent brain damage.

Potential health effects

Sensitization
None known

Chronic toxicity
See Section 2.

Mutagenic effects
None known

12. ECOLOGICAL INFORMATION

Tetrachloroethylene

Microtox Data
Tetrahymena pyriformis EC50=100 mg/L (24 h)
Nitrosomonas EC50=112 mg/L (24 h)
Photobacterium phosphoreum EC50=120.0 mg/L (30 min)

Water Flea Data
Daphnia magna EC50=10 mg/L (48 h)

Solvent naphtha (petroleum), medium aliphatic

Water Flea Data
Daphnia magna hEC50=48 (>100 mg/L)

Petroleum distillates, hydrotreated heavy naphthenic

Water Flea Data
Daphnia magna EC50>1000 mg/L (48 h)
12. ECOLOGICAL INFORMATION

Petroleum distillates, solvent-refined light paraffinic

Water Flea Data
Daphnia magna EC50>1000 mg/L (48 h)
n-Butyl alcohol

Microtox Data
Photobacterium phosphoreum EC50=2041.4 mg/L (5 min)
Photobacterium phosphoreum EC50=2186 mg/L (30 min)
Aerobic heterotroph EC50=3980 mg/L (24 h)
Pseudomonas putida EC50=4400 mg/L (17 h)

Water Flea Data
Daphnia magna EC50=1987 - 2072 mg/L (48 h)
Daphnia magna EC50=1983 mg/L (48 h)

13. DISPOSAL CONSIDERATIONS

Disposal Information
As supplied, this product is a RCRA Hazardous Waste. Waste must be tested for ignitability to determine EPA hazardous waste numbers. Do not puncture or incinerate. Depressurize before disposal. Discard container or liner in accordance with federal, state, and local regulations.

14. TRANSPORTATION INFORMATION

DOT
Consumer commodity, ORM-D.

TDG
Consumer commodity, ORM-D.

15. REGULATORY INFORMATION

Chemical Name  | US EPA SARA 313 Emission Reporting
----------------|----------------------------------------
Tetrachloroethylene | Listed
n-Butyl alcohol | Listed

State Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey - RTK</th>
<th>Pennsylvania - RTK</th>
<th>California Prop. 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propane</td>
<td>Listed</td>
<td>Listed</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Butane</td>
<td>Listed</td>
<td>Listed</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Solvent naphtha (petroleum), medium aliphatic</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Tetrachloroethylene</td>
<td>Listed</td>
<td>Listed</td>
<td>Carcinogen</td>
</tr>
<tr>
<td>Petroleum distillates, solvent-refined light paraffinic</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Petroleum distillates, hydrotreated heavy naphthenic</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
<tr>
<td>n-Butyl alcohol</td>
<td>Listed</td>
<td>Listed</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

16. OTHER INFORMATION

WARNING: This product contains a chemical(s) known to the state of California to cause cancer and birth defects or other reproductive harm

International Inventories

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>EINECS</th>
<th>DSL</th>
<th>NDSL</th>
<th>TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propane</td>
<td>X</td>
<td>X</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>Butane</td>
<td>X</td>
<td>X</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>Solvent naphtha (petroleum), medium aliphatic</td>
<td>X</td>
<td>X</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>Tetrachloroethylene</td>
<td>X</td>
<td>X</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>Petroleum distillates, solvent-refined light paraffinic</td>
<td>X</td>
<td>X</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>Petroleum distillates, hydrotreated heavy naphthenic</td>
<td>X</td>
<td>X</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>n-Butyl alcohol</td>
<td>X</td>
<td>X</td>
<td>-</td>
<td>X</td>
</tr>
</tbody>
</table>

CPR
This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all of the information required by the Controlled Product Regulations

19910
Kwikee Penetrating Oil

Water Flea Data
Daphnia magna EC50>1000 mg/L (48 h)
Daphnia magna EC50=1987 - 2072 mg/L (48 h)
Daphnia magna EC50=1983 mg/L (48 h)

Microtox Data
Photobacterium phosphoreum EC50=2041.4 mg/L (5 min)
Photobacterium phosphoreum EC50=2186 mg/L (30 min)
Aerobic heterotroph EC50=3980 mg/L (24 h)
Pseudomonas putida EC50=4400 mg/L (17 h)

Water Flea Data
Daphnia magna EC50=1987 - 2072 mg/L (48 h)
Daphnia magna EC50=1983 mg/L (48 h)

HMIS
Health - 2 *
Flammability - 3
Physical Hazard - 0

Prepared By
V. Shargorodsky, Regulatory Affairs Engineer

The information accumulated herein is believed to be accurate, but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.