SAFETY DATA SHEET

Issue Date 18-Feb-2014  Revision Date 10-Sept-2014  Version 1

1. IDENTIFICATION

GHS Product Identifier
Product Name  Murphy's Liquid Tire & Tube Lubricant

Other Means of Identification
SDS #  88-8LS

Recommended Use of the Chemical and Restrictions on Use
Recommended Use  Tire Lubricant

Details of the Supplier of the Safety Data Sheet
Supplier Address  JTM Products, Inc.
31025 Carter Street
Solon, OH  44139
Tel.  440-287-2302
     800-229-6744
Fax.  440-287-3095

Emergency Telephone Number
Emergency Telephone  Chemtel  1-800-255-3924

2. HAZARDS IDENTIFICATION

Classification
This chemical is considered non-hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

GHS classification
Hazard categories:
Skin Irritant: 3
Eye irritation: Eye Irritant 2A

Label elements
Signal word: Warning
**Hazard statements**

- H316 Causes mild skin irritation.
- H319 Causes serious eye irritation.

**Precautionary statements**

- P264 Wash skin thoroughly after handling.
- P280 Wear eye protection/Protective gloves.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P332+P313 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313 If eye irritation persists: Get medical advice/attention.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains no substances which at their given concentration, are considered to be hazardous to health.

**Components**

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Chemical Name</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>7732-18-5</td>
<td>Water</td>
<td>85-95%</td>
</tr>
<tr>
<td>65997-01-5</td>
<td>Sodium salts of tall oil (soap)</td>
<td>5-15%</td>
</tr>
<tr>
<td>EINECS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>266-037-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10213-79-3</td>
<td>Sodium metasilicate</td>
<td>&lt;1.0% wt</td>
</tr>
<tr>
<td>EINECS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>229-912-9</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Where range is displayed, the exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

**First Aid Measures**

**Inhalation**

Move to fresh air. If symptoms persist, call a physician

**Eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. If symptoms persist, call a physician.

**Ingestion**

Do NOT induce vomiting. Drink plenty of water. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately

**Skin Contact**

Wash off immediately with soap and water. If skin irritation persists, call a physician.

**Most Important Symptoms and Effects, Both Acute and Delayed**

**Symptoms**

Direct contact with eyes may cause temporary irritation. Prolonged or repeated skin contact may cause irritation.
Indication of any Immediate Medical Attention and Special Treatment Needed
Note to Physicians  Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Specific Hazards Arising from the Chemical
No information available.

Hazardous Combustion Products
Sensitivity to Mechanical Impact  None
Sensitivity to Static Discharge  None

Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions  Avoid contact with the skin and the eyes. Evacuate personnel to safe areas. Use personal protective equipment. Keep people away from and upwind of spill/leak.

Environmental Precautions  Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional ecological information

Methods and Material for Containment and Cleaning Up

Methods for Containment  Dike to collect large liquid spills. Prevent leakage or spillage if safe to do so.

Methods for Cleaning Up  Dam up. Soak up with inert absorbent material. Place the bulk of any spilled material into properly labeled containers. Rinse any remaining material to sewage treatment facility. Clean up in accordance with all applicable regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Handling  Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist. Ensure adequate ventilation. Use only in area provided with appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Do not take internally.
**Conditions for Safe Storage, Including any Incompatibilities**

**Storage**  Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Keep out of the reach of children.

**Incompatible Materials**  Strong oxidizing agents. Strong bases

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control Parameters**

**Appropriate Engineering Controls**

**Engineering Controls**
- Eyewash stations
- Showers
- Ventilation systems.

**Individual Protection Measures, such as Personal Protective Equipment**

**Eye/Face Protection**
- Wear approved safety goggles.

**Skin and Body Protection**
- Lightweight protective clothing. Chemical resistant gloves, if needed, to avoid prolonged or repeated skin contact.

**Respiratory Protection**
- No special protective equipment required. If respirators are used, OSHA requires a written respiratory program that includes at least: medical certification training, fit testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

**General Hygiene Considerations**
- Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Do not eat, drink or smoke when using this product. Regular cleaning of equipment, work area and clothing is recommended.

**Control Parameters**
- N.A.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on Basic Physical and Chemical Properties**

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Appearance &amp; Color</th>
<th>Odor</th>
<th>Odor threshold</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>Yellow Liquid</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks - Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>$&lt; 0 , ^\circ C / &lt; 32 , ^\circ F$</td>
<td></td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>$&gt; 104 , ^\circ C / &gt; 220 , ^\circ F$</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>$&gt; 104 , ^\circ C / &gt; 220 , ^\circ F$</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not determined</td>
<td></td>
</tr>
</tbody>
</table>
Flammability Limits in Air

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper Flammability Limits</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Lower Flammability Limits</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.02</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Completely soluble</td>
</tr>
<tr>
<td>Solubility in other Solvents</td>
<td>Not determined</td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>Not determined</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>Not determined</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not determined</td>
</tr>
<tr>
<td>Kinematic Viscosity</td>
<td>&gt; 100 cPs</td>
</tr>
<tr>
<td>Dynamic Viscosity</td>
<td>Not determined</td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>None</td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>None</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity
Not reactive under normal conditions

Chemical Stability
Stable under recommended storage conditions

Possibility of Hazardous Reactions
None under normal processing

Conditions to Avoid
Contact with incompatible material

Incompatible Materials
Strong oxidizing agents

Hazardous Decomposition Products
Carbon oxides

11. TOXICOLOGICAL INFORMATION

Information on Likely Route of Exposure

Product Information

<table>
<thead>
<tr>
<th>Route</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>Not a likely route of exposure</td>
</tr>
<tr>
<td>Eye Contact</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>Skin Contact</td>
<td>Cause mild skin irritation</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Do not taste or swallow</td>
</tr>
<tr>
<td>Symptoms</td>
<td>Direct contact with eyes may cause temporary irritation. Prolonged or repeated contact may dry skin and cause irritation</td>
</tr>
</tbody>
</table>
Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure

Carcinogenicity
This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP

12. ECOLOGICAL INFORMATION

Ecotoxicity
The environmental impact of this product has not been fully investigated.

Persistence and Degradability
No information available.

Mobility
Not Determined.

Other Adverse Effects
Not Determined.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods
Disposal of Wastes
Disposal should be in accordance with applicable regional, national and local laws and regulations. Contact your supplier or a licensed contractor for detailed recommendations.

Contaminated Packaging
Do not re-use empty containers. Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

DOT
Not regulated
IATA
Not regulated
IMDG
Not regulated

15. REGULATORY INFORMATION

International Inventories
TSCA
All ingredients appear on inventory
DSL/NDSL
All components of this product are listed or are exempt
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances / not available (N.A.)
ENCs – Japan Existing and New Chemical Substances/not available (N.A.)
IECSC – China Inventory of Existing Chemical Substances/not available (N.A.)
KECL – Korean Existing and Evaluated Chemical Substances/not available (N.A.)
PICCS – Philippines Inventory of Chemicals and Chemical Substances/not available (N.A.)
**Legend:**

TSCA - *United States Toxic Substances Control Act Section 8(b) Inventory*

DSL/NDSL - *Canadian Domestic Substances List/Non-Domestic Substances List*

EINECS/ELINCS - *European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*

ENCS - *Japan Existing and New Chemical Substances*

IESCC - *China Inventory of Existing Chemical Substances*

KECL - *Korean Existing and Evaluated Chemical Substances*

PICCS - *Philippines Inventory of Chemicals and Chemical Substances*

**US Federal Regulations**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

- Acute Health Hazard: Yes
- Chronic Health Hazard: No
- Fire Hazard: No
- Sudden Release of Pressure Hazard: No
- Reactive Hazard: No

**CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42): None known

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302): None Known

**U.S. State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations:** None known at levels that require reporting.

**U.S. EPA Label Information**

*EPA Pesticide Registration Number:* Not Applicable

**16. OTHER INFORMATION**

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Special Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Physical Hazards</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

**Issuance Date** 18-Feb-2014

**Revision Date** 10-Sept-2014

**Revision Note** New format
Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet