MATERIAL SAFETY DATA SHEET

Section 1 – Product & Company Identification

Product Name: Spray Lube
Company Name: Ridge Tool Company
Address: 400 Clark Street
              Elyria, Ohio 44035-6001
Telephone: 1-800-519-3456 (USA) (8:00 am – 5:00 pm EST, M-F)
Emergency Telephone: call 9-1-1 or local emergency number
Website: www.RIDGID.com
Issue Date: March 19, 2009

Section 2 – Hazards Identification

EMERGENCY OVERVIEW:
Inhalation is the most likely method of exposure. Minimal effects are expected at levels below the TLV of components. Dizziness, drowsiness, coughing, nasal, or throat irritations may occur at higher levels. LPG (propellant) may act as a simple asphyxiant without other significant physiological effects if the oxygen content is low. It is reported that overexposures can cause liver abnormalities, kidney, lung, and spleen damage in animals.

POTENTIAL HEALTH EFFECTS AND SYMPTOMS FROM SHORT TERM / ACUTE EXPOSURE:
• Eye:
  Short term exposure may result in eye irritation.

• Skin:
  Short term exposure may result in eye irritation. Long term exposure may result in irritation or skin disorders.

• Inhalation:
  Short term exposure may result in respiratory irritation. Long term exposure may result in lung damage.

• Ingestion:
  Short term exposure may result in diarrhea or difficulty breathing.

• Potential Chronic Health Effects:
  Skin disorders, lung damage.
Product Name: Spray Lube

- Medical Conditions Aggravated By Exposure:
  None known.

POTENTIAL ENVIRONMENTAL EFFECTS
  Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

HMIS Rating: Health – 1  Flammability – 4  Reactivity – 0

Section 3 – Composition / Information On Ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>EC #</th>
<th>% By Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heptane</td>
<td>142-82-5</td>
<td>205-563-8</td>
<td>40-45</td>
</tr>
<tr>
<td>Mineral Oil</td>
<td>64742-52-5</td>
<td>265-155-0</td>
<td>30-35</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>200-827-9</td>
<td>15-20</td>
</tr>
<tr>
<td>Zinc Oxide</td>
<td>1314-13-2</td>
<td>215-222-5</td>
<td>0-5</td>
</tr>
<tr>
<td>Inedible Animal Grease</td>
<td>68153-81-1</td>
<td>268-896-8</td>
<td>0-2</td>
</tr>
<tr>
<td>Stearic Acid</td>
<td>68440-15-3</td>
<td>270-438-7</td>
<td>0-1</td>
</tr>
<tr>
<td>Lithium Hydroxide Monohydrate</td>
<td>1310-66-3</td>
<td>---</td>
<td>0-1</td>
</tr>
<tr>
<td>Diphenylamine</td>
<td>122-39-4</td>
<td>204-539-4</td>
<td>0-1</td>
</tr>
<tr>
<td>Butyl zimate</td>
<td>136-23-2</td>
<td>205-232-8</td>
<td>0-1</td>
</tr>
</tbody>
</table>

Section 4 – First Aid Measures

SKIN CONTACT:
  Remove any contaminated clothing and wash contact areas with soap and water.

INHALATION:
  Remove to fresh air. If breathing has stopped, administer artificial respiration and seek medical help immediately.

EYE CONTACT:
  Flush thoroughly with water for 15 minutes. If irritation persists, get medical assistance.

INGESTION:
  If ingested, call a physician immediately. Do not induce vomiting.
FIRE AND EXPLOSIVE PROPERTIES AND HAZARDS:

Flashpoint: < 0°F Cleveland Open Cup
Flammability Limits: LEL - 0.9% by volume
                   UEL - 9.5% by volume
Autoignition Temperature: Not determined

Fire hazard at elevated temperatures. Do not spray near open flame. At temperatures above 130°F, aerosol containers may vent, burst, or rupture.

EXTINGUISH MEDIA:
Use foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.

HAZARDOUS COMBUSTION PRODUCTS:
Combustion by-products include oxides of carbon

FIRE-FIGHTING PROCEDURES AND EQUIPMENT:
Keep containers cool. Use air-supplied breathing equipment for enclosed or confined spaces. Use shielding to protect personnel against bursting containers.

PERSONAL PRECAUTIONS:
Remove sources of ignition and ventilate area. Allow vapors to be below their TLV. Use personal protection recommended in Section 8.

ENVIRONMENTAL:
Keep product from entering sewers or water courses.

CONTAINMENT:
Use oil absorbent and clean area.
Section 7 – Handling And Storage

HANDLING:
As with any industrial chemical, handle the product in a manner that minimizes exposure to practicable levels. Prior to handling, consult Section 8 of this MSDS to evaluate personal protective equipment needs. Follow all other standard industrial hygiene practices. Wash thoroughly after handling. Prevent small spills and leakage to avoid slip hazard.

STORAGE:
Store in a cool, dry area out of direct sunlight. Do not puncture, incinerate, or heat containers above 130°F.

Section 8 – Exposure Controls / Personal Protection

EXPOSURE GUIDELINES:

<table>
<thead>
<tr>
<th></th>
<th>UK OES TWA:</th>
<th>UK OES STEL:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil Mist in Air</td>
<td>5 mg / m3</td>
<td>10 mg / m3</td>
</tr>
<tr>
<td>Heptane</td>
<td>OSHA PEL:</td>
<td>1600 mg / m3</td>
</tr>
<tr>
<td></td>
<td>ACGIH TLV:</td>
<td>1600 mg / m3</td>
</tr>
<tr>
<td>Propane</td>
<td>OSHA PEL:</td>
<td>1000 mg / m3</td>
</tr>
<tr>
<td></td>
<td>ACGIH TLV:</td>
<td>1000 mg / m3</td>
</tr>
</tbody>
</table>

ENGINEERING CONTROLS:
Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

PERSONAL PROTECTIVE EQUIPMENT:
Selection of personal protective equipment should be based upon the anticipated exposure and made in accordance with OSHA’s Personal Protective Equipment Standard found in 29 CFR 1910 Subpart I. Employees should be properly trained to use appropriate PPE when working with this product.

- Eye Protection:
  Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

- Skin Protection:
  Wear appropriate chemical resistant clothing and gloves.
Respiratory Protection:
If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate.

### Section 9 – Physical And Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Appearance</td>
<td>White Aerosol</td>
</tr>
<tr>
<td>Odor</td>
<td>Solvent</td>
</tr>
<tr>
<td>Physical State</td>
<td>Aerosol</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Negligible</td>
</tr>
<tr>
<td>Flash Point [Method]:</td>
<td>&lt; 0°F Cleveland Open Cup</td>
</tr>
<tr>
<td>Flammable Limits (Approximate volume % in air)</td>
<td>LEL: 0.9   UEL: 9.5</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Density (Air = 1)</td>
<td>&gt; 1</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>115 psig at 130°F</td>
</tr>
<tr>
<td>Specific Gravity (Water = 1)</td>
<td>0.94</td>
</tr>
<tr>
<td>Evaporation Rate (n-butyl acetate = 1)</td>
<td>&gt; 1</td>
</tr>
</tbody>
</table>

### Section 10 – Stability And Reactivity

**STABILITY:**
This product is stable under normal conditions.

**CONDITIONS TO AVOID:**
Avoid spraying into open flame or onto red hot surfaces.

**INCOMPATIBLE MATERIALS:**
This product is incompatible with strong oxidizers.

**DECOMPOSITION PRODUCTS MAY INCLUDE:**
Thermal decomposition products of combustion: oxides of carbon.

**HAZARDOUS POLYMERIZATION:**
This product is not expected to polymerize.
section 11 – toxicological information

acuTe:

<table>
<thead>
<tr>
<th>Component</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heptane</td>
<td>No data available</td>
</tr>
<tr>
<td>Mineral Oil</td>
<td>Low order of dermal and oral toxicity</td>
</tr>
<tr>
<td>Propane</td>
<td>No data available</td>
</tr>
<tr>
<td>Zinc Oxide</td>
<td>No data available</td>
</tr>
<tr>
<td>Inedible Animal Grease</td>
<td>No data available</td>
</tr>
<tr>
<td>Stearic Acid</td>
<td>Toxicity (Oral Rat): LD50 &gt; 10,000 mg/kg</td>
</tr>
<tr>
<td>Lithium Hydroxide Monohydrate</td>
<td>Toxicity (Oral Rat): LD50 210 mg/kg</td>
</tr>
<tr>
<td>Diphenylamine</td>
<td>Toxicity (Oral Rat): LD50 3200 mg/kg</td>
</tr>
<tr>
<td>Butyl zimate</td>
<td>Toxicity (Oral Rat): LD50 &gt; 16,000 mg/kg</td>
</tr>
</tbody>
</table>

section 12 – ecological information

not available

section 13 – disposal consideration

waste disposal:

Ensure that collection, transport, treatment and disposal of waste product and containers complies with all applicable laws and regulations. Note that use, mixture, processing or contamination of the product may cause the material to be classified as a hazardous waste. It is the responsibility of the product user or owner to determine at the time of disposal whether the product is regulated as a hazardous waste.

section 14 – transportation information

land (adr): no classification assigned.

land (rid): no classification assigned.

sea (imdg) : UN 1950, AEROSOLS (Ltd. Qty.), Class 2.1, EmS No. F-D, S-U, ERG No. 126

air (icao) : ID 8000, CONSUMER COMMODITY, Class 9, Packing Instructions – 910

air (iata) : ID 8000, CONSUMER COMMODITY, Class 9, Packing Instructions – 910
Product Name: Spray Lube

Section 15 – Regulatory Information

EUROPEAN REGULATIONS:
EC CLASSIFICATION (CALCULATED): N
Risk Phrases: R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SARA (313) TOXIC RELEASE INVENTORY: Zinc Compounds < 4%

CANADA
WHMIS Classification: Not controlled under WHMIS

Section 16 – Other Information

Prepared by: Ridge Tool Company

Issue Date: March 19, 2009
Last Revision Date: March 19, 2009

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