Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Green Lubricant
Part Number: GL-(all sizes)
Relevant Use: Industrial / Metal / Polishing Lubricant
Manufacturer: Sturbridge Metallurgical Services Inc.
City, State, Zip: Sturbridge MA 01566
Phone Number: 508-347-5288
Emergency Phone: CHEMTREC 1-800-424-9300

Section 2: Hazard(s) Identification

Classification of the substance or mixture

<table>
<thead>
<tr>
<th>Hazard Class</th>
<th>Category Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable Liquid</td>
<td>2</td>
</tr>
<tr>
<td>Acute Toxicity</td>
<td>4</td>
</tr>
<tr>
<td>Skin Irritation</td>
<td>2</td>
</tr>
<tr>
<td>Eye Irritation</td>
<td>2A</td>
</tr>
<tr>
<td>STOT SE</td>
<td>3</td>
</tr>
</tbody>
</table>

Signal word: Danger

GHS Labeling

Hazard Statement(s):
H225 - Highly flammable liquid and vapour
H302 - Harmful if swallowed
H319 – Causes serious eye irritation

Precautionary Statement(s):
P210 – Keep away from heat, hot surfaces, open flames, sparks – No smoking
P233 – Keep container tightly closed
P261 – Avoid breathing mist, spray, vapours
P264 – Wash exposed skin thoroughly after handling
P271 – Use only outdoors or in a well ventilated area
P280 – Wear eye protection, face protection, protective clothing, protective gloves

Response Statement(s):
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P312 - Call a POISON CENTER/doctor/.../if you feel unwell
P337+P313 - If eye irritation persists: Get medical advice/attention
P370+P378 - In case of fire: Use dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2) for extinction

Storage Statement(s):
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P403+P235 - Store in a well-ventilated place. Keep cool
P405 - Store locked up

Disposal Statement(s):
P501 - Dispose of contents/container to comply with local, state and federal regulations

Other Hazard(s):
None known

HMIS Rating:
Health: 2
Flammability: 3
Reactivity: 0

NFPA Ratings:
Health: 2
Flammability: 3
Reactivity: 0
Other: 0

Section 3: Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS NUMBER</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl Alcohol (2-propanol)</td>
<td>67-63-0</td>
<td>70-80%</td>
</tr>
<tr>
<td>Glycerol</td>
<td>56-81-5</td>
<td>20-30%</td>
</tr>
<tr>
<td>Green dye</td>
<td>2353-45-9</td>
<td>&lt;0.1%</td>
</tr>
</tbody>
</table>

Section 4: First-Aid Measures

General Advice:
Remove soiled/soaked clothing immediately. If you do not feel well, seek medical attention (show the label when possible).

Inhalation:
If inhaled, move person to fresh air. If they are having difficulty breathing, give oxygen (if available). Consult a doctor if symptoms continue or get worse.

Skin Contact:
In case of contact with skin, wash off immediately with soap and plenty of water. Remove all clothing including shoes. Consult a doctor if you develop skin irritation.

Eye Contact:
Rinse the affected eye immediately with plenty of water while keeping the unaffected eye well protected. Consult a doctor if you develop eye irritation.

Ingestion:
Induce vomiting immediately. Immediately call a doctor.

Section 5: Fire-Fighting Measures

**Fire Extinguishing Media:** Carbon Dioxide (CO2), Dry chemical

**Fire Hazard:** Direct fire hazard. Highly flammable. Gas/vapour flammable with air within explosion limits. Indirect fire hazard. May be ignited by sparks.

**Advice for fire-fighters**

Cool tanks/drumms with water spray/remove them into safety. Do not move the load if exposed to heat.

**Protection during firefighting**

Heat/fire exposure; compressed air/oxygen apparatus

Section 6: Accidental Release Measures

**Personal Precautions, Protective Equipment and Emergency Procedures**

Gloves. Protective goggles. Protective clothing. Large spills/in enclosed spaces; compressed air apparatus.


**Environmental Precautions**

Do not allow entry to drains, waterways, or soil

**Cleanup and Containment Methods and Materials**

Pick up with inert absorbent material. Keep in suitable, closed containers for disposal

Dispose of absorbed material in accordance with local regulations.

Section 7: Handling and Storage

**Precautions for safe handling:** Provide good ventilation of working area (local exhaust ventilation if necessary)

Observe the general rules of industrial fire protection. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

**Condition for safe storage:** Keep only in unopened original container. Use polyolefin containers. Do not use steel containers.

Keep container tightly closed and dry in a cool, well-ventilated place. Protect against frost. The product after freezing is no longer usable.

Section 8: Exposure Controls/Personal Protection Exposure Limits
<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl Alcohol (2-propanol)</td>
<td>67-63-0</td>
<td>200 ppm TWA</td>
<td>980 mg/m³ TWA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>200 ppm STEL</td>
<td>400 ppm TWA</td>
</tr>
<tr>
<td>Glycerol</td>
<td>56-81-5</td>
<td>Insufficient data</td>
<td>15 mg/m³ TWA</td>
</tr>
<tr>
<td>Green dye</td>
<td>2353-45-9</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**Engineering controls:** Emergency eye wash fountains and safety showers should be available. Provide good ventilation of working area (local exhaust ventilation if necessary)

**Respiratory protection:** Use respiratory protection in case of insufficient exhaust.

**Hand Protection:** Gloves

**Eye protection:** Wear safety glasses or goggles.

**Skin protection:** Wear protective clothing.

### Section 9: Physical and Chemical Properties

- **Appearance**: Green oily liquid
- **Odor**: Alcohol odor
- **Vapor pressure**: 44 hPa
- **Vapor pressure at 50°C**: 229 hPa
- **pH**: no data available
- **Relative density**: not determined
- **Freezing point**: not determined
- **Solubility(ies)**: Soluble in water
- **Boiling point/Boiling range**: approx. (82°C)
- **Flash point**: 12°C
- **Evaporation rate**: not determined
- **Flammability (solid, gas)**: not determined
- **Partition coefficient**: Not determined
- **n-octanol/water**: self-ignition temperature 399°C
- **Decomposition temperature**: not determined
- **Explosive Limits**: 2-13 vol %

### Section 10: Stability and Reactivity

**Reactivity**

Stable

**Chemical Stability**

Stable under normal recommended conditions

**Thermal decomposition / conditions to be avoided**

Avoid excessive heat, sparks, flames and contact with strong oxidizing agents. Do not store in aluminum equipment at temperatures above 120°F

**Possibility of hazardous reactions**

May react violently with oxidants

**Incompatible materials**

Hazardous Decomposition
Carbon dioxide and carbon monoxide, Hydrocarbons, Formaldehyde. May produce acrid smoke and irritating fumes when heated to decomposition.

Section 11: Toxicological Information:

Data for Glycerol (56-81-5)
Acute oral toxicity: LD50 > 12600 mg/kg (rat)
Acute dermal toxicity: LD50 > 10000 mg/kg (rabbit)
Skin irritation: Irritant to the skin and mucous membranes
Eye irritation: Irritating effect. Causes serious eye irritation

Data for Isopropyl Alcohol (2-Propanol) (67-63-0)
Acute oral toxicity: LD50 > 5045 mg/kg (rat)
Acute dermal toxicity: LD50 > 12870 mg/kg (rabbit)
Acute inhalation toxicity: LD50 > 73 mg/l/4h (rat)
Skin irritation: Not classified
Eye irritation: Causes serious eye irritation

Section 12: Ecological Information

Toxicity
Ecology – general: Classification concerning the environment, not applicable
Ecology – air: TA-Luft Klasse 5.2.5
Ecology – water: Ground water pollutant. Not harmful to fishes (LC50(96h)>1000 mg/l).

Persistence and degradability
Readily biodegradable in water. Biodegradable in soil.

Bioaccumulative potential
Low potential for bioaccumulation (Log Kow<4).

Mobility in soil
Surface tension: 0.021 N/m (25°C)

Other adverse effects:
No additional information found

Section 13: Disposal Considerations

Waste treatment methods:
Waste disposal recommendations. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Do not discharge into surface water.

Section 14: Transportation Information
DOT shipping name: Flammable Liquid, N.O.S. (Isopropyl Alcohol)
DOT hazard class: 3
UN number: 1219
Packing group: II

Section 15: Regulatory Information

Isopropyl Alcohol
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on SARA Section 313 (Specific toxic chemical listings)

Canada
WHMIS Classification: Class B Division 2 – Flammable Liquid
Class D Division 2 Subdivision B – Toxic material causing other toxic effects

Section 16: Other Information

Further Information: Observe national and local legal requirements.

Disclaimer: The information above is believed to be accurate and represents the best information currently available to us. SMS, Inc. makes no warranty, express or implied, as to its accuracy, and we assumes no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. We shall not be liable for any damages to person or property resulting from its use.