

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

Hazard Class	Category Code
Flammable Liquid	2
Acute Toxicity	4
Skin Irritation	2
Eye Irritation	2A
STOT SE	3

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

Component	CAS NUMBER	Concentration
Isopropyl Alcohol (2-propanol)	67-63-0	70-80%
Glycerol	56-81-5	20-30%
Green dye	2353-45-9	<0.1%

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/drums 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. Keep upwind. Mark the danger area. Consider evacuation. Stop engines and no smoking. Keep containers closed. Wash contaminated clothing.

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

Component	CAS No.	ACGIH TLV	OSHA PEL
Isopropyl Alcohol (2-propanol)	67-63-0	200 ppm TWA 200 ppm STEL	980 mg/m ³ TWA 400 ppm TWA
Glycerol	56-81-5	Insufficient data	15 mg/m ³ TWA
Green dye	2353-45-9	None	None

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

Ammonia. Strong acids. Strong oxidizers.

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.

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