

# SAFETY DATA SHEET

## Section 1 - Identification

**Product Name:** Hand Sanitizer HSL  
**Product Code:** HSL sanitizer liquid in all sizes (lot #s H-2004231377, H-2004161182, & H20042181)  
**Product Use:** Hand Sanitizer - For direct use on hands  
**Not Recommended For:** NA

**Supplier Information** GP Reeves  
4551 Holland Ave.  
Holland, MI 49424  
616-399-8893

## Emergency Phone Numbers

**CHEMTREC: Canada and USA - (800) 424-9300**

**CHEMTREC: In Mexico - 01-800-681-9531**

## Section 2 - Hazards Identification

### GHS Ratings

Flammable liquid	2	Flash point < 23°C and initial boiling point > 35°C (95°F)
Skin corrosive	3	Reversible adverse effects in dermal tissue, Draize score: >= 1.5 < 2.3
Eye corrosive	2B	Mild eye irritant: Subcategory 2B, Reversible in 7 days
Organ toxin single exposure	3	Transient target organ effects- Narcotic effects- Respiratory tract irritation
Organ toxin repeated exposure	1	case studies or epidemiological studies Presumed significant toxicity in humans- Animal studies with significant and/or severe toxic effects relevant to humans at generally low exposure (guidance)

### GHS Hazards

H225	Highly flammable liquid and vapour
H316	Causes mild skin irritation
H320	Causes eye irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H372	Causes damage to organs through prolonged or repeated exposure

### GHS Precautions

P210	Keep away from heat/sparks/open flames/hot surfaces –No smoking
P233	Keep container tightly closed
P240	Ground/bond container and receiving equipment
P241	Use explosion-proof electrical/ventilating/light/equipment

GHS Precautions continued on next page

## GHS Precautions - Continued

P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge
P260	Do not breathe dust/fume/gas/mist/vapors/spray
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P264	Wash face, hands, and any exposed skin thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P271	Use only outdoors or in a well-ventilated area
P280	Wear protective gloves/protective clothing/eye protection/face protection
P312	Call a POISON CENTER or doctor/physician if you feel unwell
P314	Get Medical advice/attention if you feel unwell
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.
P332+P313	If skin irritation occurs: Get medical advice / attention
P337+P313	If eye irritation persists get medical advice / attention
P370+P378	In case of fire: Use suitable media for extinction
P405	Store locked up
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well ventilated place. Keep cool
P501	Dispose of contents/container in accordance with local/regional/national/international regulations

## Danger



## Section 3 - Composition/Information on Ingredients

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Ethyl alcohol 64-17-5 70% - 80% Vapor Pressure: 42.979 mmHg	1000 ppm TWA; 1900 mg/m <sup>3</sup> TWA	1000 ppm STEL	NIOSH: 1000 ppm TWA; 1900 mg/m <sup>3</sup> TWA
Glycerin 56-81-5 1% - 5% Vapor Pressure: .002 mmHg	15 mg/m <sup>3</sup> TWA (mist, total particulate); 5 mg/m <sup>3</sup> TWA (mist, respirable fraction)		
Hydrogen peroxide 7722-84-1 0.1% - 1.0%	1 ppm TWA; 1.4 mg/m <sup>3</sup> TWA	1 ppm TWA	NIOSH: 1 ppm TWA; 1.4 mg/m <sup>3</sup> TWA

## Section 4 - First-aid Measures

### Inhalation

Rescuers should put on appropriate protective gear. Remove from area of exposure. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep victim warm. Get immediate medical attention. To prevent aspiration, keep head below knees.

### Eye Contact

Immediately flush eyes with water. Flush eyes with water for a minimum of 15 minutes, occasionally lifting and lowering upper lids. Get medical attention promptly.

### Skin Contact

Remove contaminated clothing. Wash skin with soap and water. Get medical attention. Wash clothing separately and clean shoes before reuse.

### Ingestion

If swallowed, do NOT induce vomiting. Give victim a glass of water. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

## Section 5 - Fire-fighting Measures

### Extinguishing Media

Water spray. Alcohol-resistant foam. BC powder. Carbon dioxide.

**Do not use:** Solid water jet ineffective as extinguishing medium.

### Specific Hazards Arising from the Chemical

DIRECT FIRE HAZARD. Highly flammable. Gas/vapour flammable with air within explosion limits.

INDIRECT FIRE HAZARD. May be ignited by sparks. Gas/vapour spreads at floor level: ignition hazard.

Reactions involving a fire hazard: see "Reactivity Hazard".

### Explosion Hazard

DIRECT EXPLOSION HAZARD. Gas/vapour explosive with air within explosion limits. INDIRECT EXPLOSION

HAZARD. may be ignited by sparks. Reactions with explosion hazards: see "Reactivity Hazard".

### Special Protective Equipment and Precautions for Firefighters

Special Information: As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA / NIOSH approved or equivalent) and full protective gear.

## Section 6 - Accidental Release Measures

### Spill and Leak Procedures

Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking. Keep upwind. Mark the danger area. Consider evacuation. Seal off low-lying areas. Close doors and windows of adjacent premises. Stop engines and no smoking. No naked flames or sparks. Spark- and explosion-proof appliances and lighting equipment. Keep containers closed. Wash contaminated clothes.

### Clean up methods:

Take up liquid spill into a non combustible material e .g.: sand, earth, vermiculite or powdered limestone.

Scoop absorbed substance into closing containers. See "Material-handling" for suitable container materials.

Carefully collect the spill/leftovers. Damaged/cooled tanks must be emptied. Do not use compressed air for pumping over spills. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority . Wash clothing and equipment after handling.

## Section 7 - Handling and Storage

### Handling Procedures

- Proper grounding procedures to avoid static electricity should be followed.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting/equipment.
- Use with adequate ventilation.
- Avoid breathing dusts, mists, and vapors.
- Do not get in eyes, on skin, or on clothing.
- Wear eye protection and protective clothing.
- Wash thoroughly after handling.

### Storage Requirements

Keep container tightly closed.

Keep only in the original container in a cool, well ventilated place away from incompatible materials.

Keep in fireproof place.

**Incompatible products** : Strong bases. Strong acids.

**Incompatible materials** : Sources of ignition. Direct sunlight. Heat sources.

**Heat and ignition sources** : KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.

**Prohibitions on mixed storage** : KEEP SUBSTANCE AWAY FROM: oxidizing agents. (strong) acids. water/moisture.

### Storage area

- Keep out of direct sunlight.
- Store in a dry area.
- Ventilation at floor level.
- Fireproof storeroom.
- Provide for an automatic sprinkler system.
- Provide for a tub to collect spills.
- Provide the tank with earthing.
- Meet the legal requirements.

Special rules on packaging : SPECIAL REQUIREMENTS: closing. dry. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.

Packaging materials : SUITABLE MATERIAL: stainless steel. aluminium. iron. copper. nickel. synthetic material. glass.

## Section 8 - Exposure Control/Personal Protection

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Ethyl alcohol 64-17-5	1000 ppm TWA; 1900 mg/m <sup>3</sup> TWA	1000 ppm STEL	NIOSH: 1000 ppm TWA; 1900 mg/m <sup>3</sup> TWA
Glycerin 56-81-5	15 mg/m <sup>3</sup> TWA (mist, total particulate); 5 mg/m <sup>3</sup> TWA (mist, respirable fraction)		
Hydrogen peroxide 7722-84-1	1 ppm TWA; 1.4 mg/m <sup>3</sup> TWA	1 ppm TWA	NIOSH: 1 ppm TWA; 1.4 mg/m <sup>3</sup> TWA

**USE ONLY AS INTENDED PER THE LABEL INSTRUCTIONS.**

**EYE PROTECTION:** Wear safety glasses where splashing could occur

**HYGENIC PRACTICES:** Do not eat, drink, or smoke in areas where this material is used. Avoid breathing vapors. Remove contaminated clothing and wash before reuse.

## Section 9 - Physical and Chemical Properties

<b>Appearance:</b>	Clear Colorless Liquid	<b>Odor:</b>	Alcohol
<b>Vapor Pressure:</b>	Not Available	<b>Odor threshold:</b>	Not Available
<b>Vapor Density:</b>	1.6	<b>pH:</b>	6.5 - 8.5
<b>Density:</b>	Not Available	<b>Melting point:</b>	Not Available
<b>Freezing point:</b>	Not Available	<b>Solubility:</b>	Complete
<b>Boiling range:</b>	70° C	<b>Flash point:</b>	25° C
<b>Evaporation rate (Ether=1):</b>	8.3	<b>Flammability:</b>	Not Available
<b>Explosive Limits:</b>	Not Available	<b>Specific Gravity:</b>	0.837
<b>Autoignition temperature:</b>	Not Available	<b>Decomposition temperature:</b>	Not Available
<b>Viscosity:</b>	Not Available	<b>Grams VOC less water:</b>	Not Available

## Section 10 - Stability and Reactivity

**Chemical Stability:** STABLE

**Incompatible Materials:** Strong acids. Strong bases.

### Conditions to Avoid

Direct sunlight. Extremely high or low temperatures. Open flame.

### Hazardous Decomposition Products

Fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

### Hazardous Polymerization

Hazardous polymerization will not occur.

## Section 11 - Toxicology Information

### Mixture Toxicity

Inhalation Toxicity LC50: 150mg/L

### Component Toxicity

7722-84-1 Hydrogen peroxide  
Oral LD50: 801 mg/kg (Rat) Dermal LD50: 4,060 mg/kg (Rat) Inhalation LC50: 2 g/m<sup>3</sup> (Rat)

### Routes of Entry:

Inhalation  
Ingestion  
Skin contact  
Eye contact

### Target Organs

Blood Eyes Kidneys Liver Central Nervous System Reproductive System Skin  
Respiratory System

### Effects of Overexposure

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
7722-84-1	Hydrogen peroxide	0.1% - 1.0%	Hydrogen peroxide:

## Section 12 - Ecological Information

<b>Component Ecotoxicity</b>	Ethyl alcohol 96 Hr LC50 Oncorhynchus mykiss: 12.0 - 16.0 mL/L [static]; 96 Hr LC50 Pimephales promelas: >100 mg/L [static]; 96 Hr LC50 Pimephales promelas: 13400 - 15100 mg/L [flow-through] 48 Hr LC50 Daphnia magna: 9268 - 14221 mg/L; 48 Hr EC50 Daphnia magna: 2 mg/L [Static]
<b>Glycerin</b>	96 Hr LC50 Oncorhynchus mykiss: 51 - 57 mL/L [static]
<b>Hydrogen peroxide</b>	96 Hr LC50 Pimephales promelas: 16.4 mg/L; 96 Hr LC50 Lepomis macrochirus: 18 - 56 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 10.0 - 32.0 mg/L [static] 48 Hr EC50 Daphnia magna: 18 - 32 mg/L [Static]

## Section 13 - Disposal Considerations

Dispose of in accordance with local, state and federal regulations.

## Section 14 - Transportation Information

**UN Code:** 1993

**Proper Shipping Name:** Flammable liquid, N.O.S. (Ethanol)

**Hazard Class:** 3

**Packing Group:** III

## Section 15 - Regulatory Information

**OSHA Process Safety Management Highly Hazardous Chemicals**

7722-84-1 Hydrogen peroxide

**TSCA 8(b) Inventory**

7722-84-1 Hydrogen peroxide

56-81-5 Glycerin

64-17-5 Ethyl alcohol

<u>Country</u>	<u>Regulation</u>	<u>All Components Listed</u>
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### **Disclaimer**

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