

Safety Data Sheet

PURIFIK LIQUID

1. Identification

Product name: **PURIFIK LIQUID**
Product description: Hand Sanitizer
Supplier/Manufacturer : Instukem
630 McCaffrey St.
Montreal, Quebec H4T 1N1
1-514-739-0020
1-800-263-0023
Emergency number: **1-613-996-6666** **CANUTEC**

2. Hazard identification

GHS classification: Category 2
Category 2A



Signal word: Danger

Hazard statement: H225 - Highly flammable liquid and vapour.

H319 - Causes serious eye irritation

Precautionary statement: P210 - Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

P233 - Keep container tightly closed.

P240 - Ground/Bond container and receiving equipment.

P241 - Use explosion-proof electrical, ventilating, and lighting equipment.

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge.

P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.

P280 - Wear protective gloves, protective clothing, and eye protection.

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 - 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.

P370+P378 - In case of fire: Use appropriate media (see section 5) to extinguish.

P403+P235 - Store in a well-ventilated place. Keep cool.

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations

Other hazards: Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

3. Composition/information on ingredients

Substance: Mixture

Name	CAS number	% in weight
• Ethyl Alcohol	64-17-5	76 – 78
• Water	7732-18-5	14 - 16
• 1,2,3-Propanetriol	56-81-5	0.02 – 0.03
• Hydrogen peroxide	7722-84-1	0.004 – 0.005

4. First-aid measures

Eye contact: Immediately flush with plenty of water for at least 15 minutes, lifting eyelids. Seek medical attention.

Skin Contact: Not irritating to the skin.

Inhalation: No danger.

Ingestion: Do not induce vomiting. If affected person is conscious, give plenty of water to drink. Never give an unconscious person anything to ingest. Seek medical attention.

Note to physician: Treat symptomatically.

Most important symptoms and effects, both acute and delayed: See Section 11 for more detailed information on health effects and symptoms.

5. Fire fighting measures

Highly flammable liquid and vapor.

Suitable extinguishing media: Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂). Water may be ineffective, but water should be used to keep fire-exposed container cool

Unsuitable extinguishing media: Do not use a heavy water stream. A heavy water stream may spread burning liquid.

Specific hazards: Highly flammable liquid and vapor.

Hazardous decomposition materials: Decomposition products may include the following materials:

Carbon oxides (CO, CO₂). Acrolein

Special protective equipment for firefighters: Do not enter fire area without proper protective equipment, including respiratory protection.

Precautions for firefighters: Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

6. Accidental release measures

Personal precautions: Remove all sources of ignition. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Environmental precautions: Avoid discharge into drains, sewers, surface or ground water. Dike if necessary.

Methods and materials for containment and clean up: Contain spillage and collect in container for disposal according to local / national regulations (see section 13).

7. Handling and storage

Handling: Handle empty containers with care because residual vapors are flammable.

Storage: Take action to prevent static discharges. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment.

8. Exposure controls / Personal protection

Occupational exposure limits

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
Ethanol	64-17-5	TWA	1,000 ppm 1,880 mg/m ³	CAD AB OEL
		STEL	1,000 ppm	CAD BC OEL
		VME	1,000 ppm 1,880 mg/m ³	OEL (QUE)
Ethanol	64-17-5	TWA	1,000 ppm 1,900 mg/m ³	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m ³	OSHA P1
1,2,3-Propanetriol	(56-81-5)	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ (mist, total particulate) 5 mg/m ³ (mist, respirable fraction)	OSHA PEL
Hydrogen peroxide	(7722-84-1)	TWA	1 ppm	ACGIH
		TWA	1.4 mg/m ³	NIOSH REL
		TWA	1 ppm	NIOSH REL

Engineering controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases or vapors may be released. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment.

Respiratory protection: Not required.

Hand protection: Wear protective gloves

Skin protection: Wear suitable protective clothing

Eye protection: Chemical safety goggles.

9. Physical and chemical properties

Physical state: Liquid

Color: Clear, colorless

Odor: Alcoholic

Odor threshold: Not available

PH: No data available

Flash point: No data available

Melting point / freezing point: Not available
Boiling point: 78 degrees Celsius
Evaporation rate: Not available
Flammability (solidi, gas): Not available
Flammability limit - lower: Not available
Flammability limit - upper: Not available
Vapor pressure: Not available
Vapor density: Not available
Relative density: 0.84 - 0.88 g/ml
Solubility: Fully miscible
Partition coefficient – n-octanol/water: Not available
Auto-ignition temperature: The product does not ignite spontaneously
Decomposition temperature: Not available
Viscosity: Not available

10. Stability and reactivity

Chemical stability: Extremely flammable liquid and vapor. May form flammable or explosive vapor-air mixture.

Possibility of hazardous reactions: Hazardous polymerization will not occur.

Conditions to avoid: Direct sunlight, extremely high or low temperatures, heat, hot surfaces, sparks, open flames, incompatible materials, and other ignition sources.

Incompatible materials: This product reacts with strong oxidizing compounds.

Hazardous decomposition products: Not expected to decompose under ambient conditions. Does not decompose up to 204° C (400° F). Thermal decomposition may release acrolein.

11. Toxicological information

Principal routes of exposure: Inhalation, ingestion, eye and skin contact.

Potential health effects

Eye contact: May cause severe eye irritation or burns. Symptoms: Redness.

Skin contact: May cause skin irritation. Symptoms: Redness.

Inhalation: Vapor may cause irritation to the respiratory tract.

Ingestion: May cause irritation of the gastrointestinal tract.

Toxicity

Acute oral: Not available

Acute dermal: Not available

Acute inhalation: Not available

Ethyl alcohol (64-17-5)	
LD50 Oral Rat	10470 mg/kg
LD50 Dermal Rat	20 ml/kg
LC50 Inhalation Rat	124.7 mg/l/4h
1,2,3-Propanetriol (56-81-5)	
LD50 Oral Rat	12600 mg/kg

LD50 Dermal Rabbit	> 10 g/kg
LC50 Inhalation Rat	> 570 mg/m ³ (Exposure time: 1 h)
Hydrogen peroxide (7722-84-1)	
LD50 Oral Rat	1193 mg/kg (Species: Sprague-Dawley; Exposure time: 4 h)
LD50 Dermal Rat	4060 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
ATE (Dust/Mist)	1.50 mg/l/4h

Skin Corrosion/Irritation: Not classified

Serious Eye Damage/Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

Ethyl alcohol (64-17-5)	
IARC group	1
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.
Hydrogen peroxide (7722-84-1)	
IARC group	3

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation.

Symptoms/Injuries After Skin Contact: Prolonged exposure may cause skin irritation.

Symptoms/Injuries After Eye Contact: Contact causes severe irritation with redness and swelling of the conjunctiva.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: Repeated exposure may cause skin dryness or cracking.

12. Ecological information

Ecology - General: Not classified.

Ethyl alcohol (64-17-5)	
LC50 Fish 1	11200 mg/l
EC50 Daphnia 1	9268 - 14221 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
ErC50 (Algae)	1000 mg/l
NOEC Chronic Crustacea	9.6 mg/l
1,2,3-Propanetriol (56-81-5)	
LC50 Fish 1	54000 (51000 - 57000) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
Hydrogen peroxide (7722-84-1)	
LC50 Fish 1	16.4 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
EC50 Daphnia 1	18 - 32 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 Fish 2	18 - 56 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])

Persistence and degradability: Not available

Bio cumulative potential: Not available

Mobility in soil: Not available

Other adverse effects: Not available.

13. Disposal considerations

Disposal instructions: Dispose of contents/container in accordance with local, regional, national, and international

regulations.

Contaminated containers: Empty containers should be recycled or disposed of through an approved waste management facility. Dispose of in accordance with municipal, provincial and federal regulations.

14. Transport Information

TDG (Canada)

UN number: 1170
TDG shipping name: ETHANOL SOLUTION
Class: If <5L: Limited quantity
If >5L: Class 3 flammable liquids
Packing group: III
Marine pollutant: No

Land transport (DOT)

UN number: 1170
Description of the goods: Ethanol solutions.
Class: 3
Packing group: III
Environmentally hazardous: No

Sea transport (IMDG/IMO)

UN number: 1170
Description of the goods: ETHANOL SOLUTION
Class: 3
Packing group: III
Marine pollutant: no

15. Regulatory information

This product has been classified in accordance with the hazard criteria of the HRP and the SDS contains all the information required by the HRP.

The ingredients of this product are listed in the domestic substances list (DLS).

16. Other information

Preparation date: APRIL 12, 2021

Prepared by: Instukem

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