

SECTION 1: Identification

Product identifier

Product name Liquid Performance Surface Sanitizer

Brand Liquid Performance

Other means of identification

Product Name Liquid Performance Surface Sanitizer

Brand Liquid Performance

Recommended use of the chemical and restrictions on use

General purpose anti-fog lens cleaner

Supplier's details

Name Liquid Performance
Address 685 Tripple Creek Rd
Rocky Mount, VA 24151
United States

Emergency phone number(s)

Company Phone General Assistance 540-489-2066
Emergency Phone US 1-866-836-8855
Emergency Phone outside US 1-952-852-4646

SECTION 2: Hazard identification

Classification of the substance or mixture

OSHA Hazards: Flammable Liquid, Target organ effect, Irritant

Target Organs: Cardiovascular system, gastrointestinal tract, kidney, liver, nerves

GHS label elements, including precautionary statements



Safety Data Sheet

Liquid Performance Surface Sanitizer

Signal Word: Hazard Statement(s): H225 H319 H336 H271 H302 H332 H314	DANGER! Highly flammable liquid and vapor Causes serious eye irritation May cause drowsiness or dizziness May cause fire or explosion; strong oxidizer Harmful if swallowed Harmful if inhaled Causes severe skin burns and eye damage
Precautionary Statement(s): P261 P312 P501 P240 P337 + P313 P301 + P330 + P331 P305 + P351 + P338 P304 + P340 P303 + P361 + P353 P370 + P378 P210 P233 P102 P403 + P233 P403 + P235 P405 P243 P241 P242 P271 P264 P280 P220 P501	Avoid breathing dust/fumes/gas/mist/vapors Call a POISON CENTER or doctor/physician if you feel unwell Dispose of contents and container to an approved waste disposal plant Ground/bond container and receiving equipment If eye irritation persists: Get medical attention IF SWALLOWED: rinse mouth. Do NOT induce vomiting IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water. In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam for extinction. Keep away from heat, sparks, open flames and hot surfaces. No smoking. Keep container tightly closed Keep out of reach of children Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up Take precautionary measures against static discharge Use explosion-proof electrical, ventilating and lighting equipment Use only non-sparking tools Use only outdoors or in a well-ventilated area Wash hands thoroughly after handling Wear protective gloves and eye and face protection Keep/Store away from clothing, combustible materials Dispose of contents/container to comply with local, state and federal regulations If inhaled: Remove person to fresh air and keep comfortable for breathing

GHS Classification(s):

Eye Irritation (Category 2)
Flammable Liquids (Category 2)
Specific Target Organ Toxicity – single exposure (Category 3)

Other hazards which do not result in classification:

Potential Health Effects:

SECTION 3: Composition/information on ingredients

1. Ethanol alcohol	80%	CAS no. 64-17-5
2. Hydrogen peroxide	0.125%	CAS no. 7722-84-1
3. Water	19.875%	CAS no. 7732-18-5

Safety Data Sheet

Liquid Performance Surface Sanitizer

SECTION 4: First-aid measures

General Advice

Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Skin

Immediately flush affected area with plenty of water while removing contaminated clothing. Wash contaminated clothing before reuse. Contact a doctor. If irritation persists, get medical attention.

Inhalation

Remove person to fresh air. If signs/symptoms continue, get medical attention. Give oxygen or artificial respiration as needed.

Eyes

Thoroughly flush the eyes with large amounts of clean low-pressure water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical attention.

Ingestion

NEVER give anything by mouth to an unconscious person. If vomiting does occur, have victim lean forward to prevent aspiration. Rinse mouth with water. Immediately have victim drink several glasses of water to dilute. Seek medical attention.

SECTION 5: Fire-fighting measures

Suitable (and unsuitable) extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide

Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products):

Carbon oxides expected to be the primary hazardous combustion product

Special protective equipment and precautions for fire fighters:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Keep unopened containers cool by spraying with water.

Unusual Fire and Explosion Hazards:

Vapors may travel to source of ignition and flash back

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Do not inhale vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions:

Stop leak. Contain spill if possible and safe to do so. Prevent product from entering drains.

Methods and materials for containment and clean up:

Contain spill, then collect with an electrically protected vacuum cleaner or by wet-brushing and put material into a convenient waste disposal container. Keep container closed.

SECTION 7: Handling and storage

Safety Data Sheet

Liquid Performance Surface Sanitizer

Precautions for safe handling:

Do not get on skin or in eyes. Do not inhale vapors or mist. Keep away from sources of ignition-no smoking. Take measures to prevent the buildup of electrostatic charge.

Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in a cool, dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

SECTION 8: Exposure controls/personal protection

Control parameters, e.g., occupational exposure limit values or biological limit values:

Occupational Exposure Limits

Component	Source	Type	Value
Ethanol alcohol	US (OSHA)	TWA	400 ppm
	US (ACGIH)	TWA	200 ppm
	US (ACGIH)	STEL	400 ppm
Hydrogen peroxide	US (OSHA)	TWA	1 ppm
	US (ACGIH)	TWA	1 ppm
	US (ACGIH)	STEL	1 ppm

Appropriate engineering controls:

General room or local exhaust ventilation is usually required to meet exposure limit(s). Electrical equipment should be grounded and conform to applicable electrical code.

Individual protection measures, such as personal protective equipment:

Respiratory Protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection:

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection:

Use chemical safety goggles and/or a full face shield where splashing is possible. Use equipment approved by appropriate government standards, such as NIOSH (US) or EN166 (EU). Maintain eye wash fountain and quick-drench facilities in work area.

Skin and body protection:

Wear impervious, flame retardant, antistatic protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

SECTION 9: Physical and chemical properties

Safety Data Sheet

Liquid Performance Surface Sanitizer

Information on basic physical and chemical properties

Ethanol CAS no. 64-17-5

Appearance/form	Clear Liquid
Odor	Characteristic hydrocarbon-like
Odor threshold	0.5 - 1.1 ppm
pH	7.33
Melting point/freezing point	32F
Initial boiling point and boiling range	212F
Flash point	Not established but expected to be very high
Evaporation rate	Less than water
Flammability (solid, gas)	None
Upper/lower flammability limits	Not established
Upper/lower explosive limits	Not established
Vapor pressure	Equal to water
Vapor density	Less than air
Relative density	1.00 g/cc
Solubility(ies)	Water soluble in all proportions
Partition coefficient: n-octanol/water	Not established
Auto-ignition temperature	Not established
Decomposition temperature	Not established
Viscosity	0.8 SI units same as water
Explosive properties	None
Oxidizing properties	None

Hydrogen peroxide CAS no. 7722-84-1

Appearance/form	Clear Liquid
Odor	Characteristic
Odor threshold	No data available
pH	No data available
Melting point/freezing point	31.3F
Initial boiling point and boiling range	302.3F
Flash point	Not established but expected to be very high
Evaporation rate	Less than water
Flammability (solid, gas)	None
Upper/lower flammability limits	No data available
Upper/lower explosive limits	No data available
Vapor pressure	Equal to water
Vapor density	Less than air
Relative density	1.41 g/cc
Solubility(ies)	Water soluble in all proportions. Soluble in ethanol
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	0.8 SI units same as water
Explosive properties	No data available
Oxidizing properties	May cause fire or explosion; strong oxidizer.

SECTION 10: Stability and reactivity

Reactivity

Unreactive under normal conditions

Chemical stability

Safety Data Sheet

Liquid Performance Surface Sanitizer

Hydrogen peroxide unstable on exposure to light

Possibility of hazardous reactions

Unlikely except with strong oxidizers

Conditions to avoid

Robust stability under normal conditions

Incompatible materials

Strong oxidizers

Hazardous decomposition products

Oxides of nitrogen and carbon

SECTION 11: Toxicological information

Ethanol Alcohol 67-63-0

Product Summary: Long term exposure (2 years) to Ethanol Alcohol via inhalation at concentrations up to 5000 ppm caused to exposure related increases in tumors in animals. No data available for the teratogenicity, mutagenicity, or reproductive toxicity of this product. No data available to designate the product as causing specific target organ toxicity through repeated exposure. No data available to designate product as an aspiration hazard.

Acute Toxicity:

LC50 Inhalation	Rat	16,000 mg/kg	8 hours
LC50 Dermal	Rabbit	12,800 mg/kg	
LD50 Oral	Rat	5,045 mg/kg	Behavioral abnormalities observed such as altered sleep time and decreased activity

Irritation:

Eyes

Rabbit – Irritating to eyes – 24 hours

Eyes

Mildly irritating to the eye at an airborne concentration of 400 ppm, unpleasant at 800 ppm

Respiratory or Skin Sensitization

No data available

Skin

Rabbit – mild skin irritation

Specific target organ toxicity – single exposure (Globally Harmonized System)

Inhalation – May cause drowsiness or dizziness – central nervous system

Carcinogenicity

IARC: Group 3: Not classifiable as to its carcinogenicity to humans.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Other Hazards

Organ	Description
-------	-------------

Safety Data Sheet

Liquid Performance Surface Sanitizer

Eyes	Produces irritation, characterized by a burning sensation, redness, tearing, inflammation, and possible corneal injury. May cause transient corneal injury.
Ingestion	Causes gastrointestinal irritation with nausea, vomiting and diarrhea. May cause kidney damage. May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, drowsiness, and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure.
Inhalation	Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. May cause narcotic effects in high concentration. Causes upper respiratory tract irritation. Inhalation of vapors may cause drowsiness and dizziness. Aspiration of material into the lungs may cause chemical pneumonitis, which may be fatal. The probable oral lethal dose in humans is 240 ml (2696 mg/kg), but ingestion of only 20 ml (224 mg/kg) has caused poisoning.
Skin	May cause irritation with pain and stinging, especially if the skin is abraded. Ethanol has a low potential to cause allergic skin reactions; however, rare cases of allergic contact dermatitis have been reported. May be absorbed through intact skin. Dermal absorption has been considered toxicologically insignificant.

SECTION 12: Ecological information

Ethanol Alcohol 67-63-0

Ecotoxicity (aquatic and terrestrial, where available):

Acute Fish Toxicity

LD50 / 96 hours Pimephales promelas: 9,640 mg/L

Toxic to Daphnia and Other Aquatic Invertebrates

EC50 / 24 h / Water Flea – 5,102 mg/L

Toxicity to Aquatic Plants

EC50 / 72 hours Desmodemus subspicatus > 2,000 mg/L

Toxicity to Daphnia and other aquatic invertebrates

Immobilization EC50 / 24 h / Water Flea – 6,851 mg/L

Persistence and degradability:

No data available

Bioaccumulative potential:

No data available

Other adverse effects:

No data available

Hydrogen peroxide 67-63-0

Ecotoxicity (aquatic and terrestrial, where available):

Acute Fish Toxicity

No data available

Toxic to Daphnia and Other Aquatic Invertebrates

No data available

Toxicity to Aquatic Plants

No data available

Toxicity to Daphnia and other aquatic invertebrates

No data available

Safety Data Sheet

Liquid Performance Surface Sanitizer

Persistence and degradability:

No data available

Bioaccumulative potential:

No data available

Other adverse effects:

No data available

SECTION 13: Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

SECTION 14: Transport information

DOT

UN-Number: 1170 Class: 3 Packing Group: II
Label Statement: Flammable Liquid

IMDG

UN-Number: 1170 Class: 3 Packing Group: II
EMS-No: F-E, S-D
Proper shipping name: ETHANOL
Marine pollutant: No

IATA

UN-Number: 1170 Class: 3 Packing Group: II
Proper shipping name: Ethanol

SECTION 15: Regulatory information

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313: ETHANOL ALCOHOL (CAS# 67-63-0) Revision date: 1987-01-01

SARA 311/312 Hazards

Acute Health Hazard
Chronic Health Hazard
Fire Hazard

CERCLA

No chemicals in this material with known CAS numbers are subject to the reporting requirements of CERCLA

Massachusetts Right to Know Components

Ethanol Alcohol CAS-No. 64-17-5 Revision Date 1987-01-01

Safety Data Sheet

Liquid Performance Surface Sanitizer

Pennsylvania Right to Know Components

Ethanol Alcohol CAS-No. 64-17-5 Revision Date 1987-01-01

New Jersey Right to Know Components

Ethanol Alcohol CAS-No. 64-17-5 Revision Date 1987-01-01

California Prop 65 Components

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: Other information

NFPA:

