

**Quest Inks and Coatings**

2401 Anson Drive

Mississauga, ON L4S 1G1

Telephone: (905) 405-0041

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SDS Preparation Date: 02/02/2022

Revision: 1

Revision Date: N/Ap

SECTION 1: IDENTIFICATION

Product Identifier	LIQUID HAND SANITIZER
Product Code	SX-5116
Details of the supplier of the Safety Data Sheet Manufacturer/Supplier:	Quest Inks and Coatings 2401 Anson Drive Mississauga, ON L4Z 1G1 Telephone: (905) 405-0041 (Monday - Friday, 8:00 am - 4:30 pm, Eastern Time)
Recommended use of the chemical and restrictions on use	Hand Sanitizer Restriction on use: Children should be supervised when using this product.
Chemical family	Mixture
Emergency telephone number:	In case of transportation emergencies: (613) 996-6666 (CANUTEC)

SECTION 2: HAZARDS IDENTIFICATION**Classification of the chemical**

Clear liquid, Alcohol odour.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazard classification:

Flammable liquids - Category 2

Serious eye damage/eye irritation - Category 2A

Specific target organ toxicity, single exposure - Category 3 (narcotic effects)

Label elements*Hazard pictogram(s)*



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Signal Word

Danger!

Hazard statement(s)

Highly flammable liquid and vapor.

Causes serious eye irritation.

May cause drowsiness or dizziness.

Precautionary statement(s)

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

Keep container tightly closed.

Ground and bond container and receiving equipment.

Use explosion-proof electrical and ventilating equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid breathing mist or vapours.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves and eye/face protection.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: get medical advice/attention.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

In case of fire: Use water fog, dry chemical, CO₂ or 'alcohol' foam to extinguish.

Store in a well-ventilated place. Keep cool.

Keep container tightly closed.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards

Other hazards which do not result in classification:

Ingestion may cause irritation of the mouth, throat and stomach.

Environmental precautions: Avoid release to the environment.



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical Name	Common Name / Synonyms	CASNo	Concentration (%)
Ethanol	Ethyl Alcohol	64-17-5	60-80
Glycerin	Glycerol	56-81-5	1-5
Hydrogen Peroxide	Dihydrogen dioxide	7722-84-1	0.1-1

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

SECTION 4: FIRST AID MEASURES

Description of first aid measures

Ingestion:

Harmful effects are not expected under normal usage. In case of accidental swallowing, contact a poison control center/doctor.

Inhalation:

Harmful effects are not expected under normal usage. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Skin contact:

None required when used as intended. Get medical attention if irritation or rash develops and persists.

Eye contact:

If in contact with eyes, immediately flush eyes with running water for at least 15 minutes. If irritation or symptoms develop, seek medical attention.

Most important symptoms and effects, both acute and delayed

Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Inhalation of high concentrations may cause respiratory irritation and narcotic effects.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

Use water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.



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Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture / Conditions of flammability

Highly flammable liquid and vapor. Vapors may travel considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. Static discharge, impact, friction, and heat may ignite exposed chemical material.

Flammability classification (OSHA 29 CFR 1910.106)

Flammable liquid – Category 2

Hazardous combustion products

Carbon oxides.

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Special fire-fighting procedures

Move containers from fire area if safe to do so. Use water to cool fire-exposed containers. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply or any natural waterway. Dike for water control.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

None required when used as intended.

Methods and material for containment and cleaning up

Remove all sources of ignition. Wipe up with absorbent material (e.g. cloth, fleece).

Environmental precautions

Avoid release to the environment.

Special spill response procedures

None required when used as intended.

US CERCLA Reportable quantity (RQ): See section 15.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling: Do not ingest or swallow. Observe good industrial hygiene practices. Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

Conditions for safe storage: Keep container tightly closed. Store in a cool, well-ventilated place.

Incompatible materials: Alkali metals; Acids; Aluminum; Strong oxidizers.



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits				
Chemical Name	ACGIH		OSHA	
	TWA	STEL	PEL	STEL
Ethanol	N/Av	1000 ppm	1000 ppm	N/Av
Glycerin	N/Av	N/Av	N/Av	N/Av
Hydrogen Peroxide	1 ppm	N/Av	1 ppm; 1.4 mg/m ³	N/Av

Exposure controls

Ventilation and engineering measures: None required when used as intended.

Respiratory protection: None required when used as intended.

Skin protection: None required when used as intended.

Eye / face protection: None required when used as intended.

Other protective equipment: None required when used as intended.

General hygiene considerations: Do not ingest. Avoid contact with eyes and clothing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear liquid.

Odor: Alcohol odour

Odor threshold: 3-60 ppm

pH: Not available

Melting/Freezing point: Not available.

Initial boiling point and boiling range: 82.5°C.

Flash point: 13°C.

Flashpoint (Method): Closed cup

Evaporation rate (BuAe = 1): Not available.

Flammability (solid, gas): Not applicable.

Lower flammable limit (% by vol.): 2.5%

Upper flammable limit (% by vol.): 12%.

Oxidizing properties: None.

Explosive properties: Not explosive

Vapor pressure: Not available.

Vapor density: Not available. (air=1)

Relative density / Specific gravity: Not available

Solubility in water: Soluble.



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Other solubility: Not available.

Partition coefficient: n-octanol/water or Coefficient of water/oil distribution: Not available.

Auto-ignition temperature: 399°C

Decomposition temperature: Not available.

Viscosity: Not applicable.

Volatiles (% by weight): Not available.

Volatile organic Compounds (VOC's): Not available.

Absolute pressure of container: Not applicable.

Flame projection length: Not applicable.

Other physical/chemical comments: None known or reported by the manufacturer.

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Not normally reactive.

Chemical stability: Material is stable under normal conditions.

Possibility of hazardous reactions: Hazardous polymerization does not occur.

Conditions to avoid: Avoid heat, sparks, open flames and other ignition sources.

Incompatible materials: Alkali metals; Acids; Aluminum; Strong oxidizers.

Hazardous decomposition products: None known, refer to hazardous combustion products in Section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation: YES

Routes of entry skin & eye: YES

Routes of entry Ingestion: YES

Routes of exposure skin absorption: NO

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure:

Sign and symptoms Inhalation

None expected when used as intended. Inhalation of high concentrations may cause respiratory irritation or narcotic effects (headache, dizziness).

Sign and symptoms ingestion

None expected when used as intended.

Sign and symptoms skin

Not expected to cause skin irritation

Sign and symptoms eyes

Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling and blurred vision.

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Potential Chronic Health Effects: Chronic skin contact may cause dermatitis.

Mutagenicity: Not expected to be mutagenic in humans.

Carcinogenicity: No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive effects & Teratogenicity: Not expected to have other reproductive effects.

Sensitization to material: Not expected to be a skin or respiratory sensitizer.

Specific target organ effects: This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification:

Specific target organ toxicity, single exposure - Category 3 (narcotic effects)

May cause drowsiness or dizziness.

Not classified as a specific target organ toxicity - repeated exposure.

Medical conditions aggravated by overexposure: Pre-existing skin, eye and respiratory disorders.

Synergistic materials: Not available.

Other important toxicological hazards: None known or reported by the manufacturer.

There is no available data for the mixture.

See below for data on each substance.

Chemical Name	LC50 (inhalation)	LD50 (oral)	LD50 (dermal)
Ethanol	61 mg/L	7060 mg/kg	>15800 mg/kg
Glycerin	>2.75 mg/L (no deaths)	27000 mg/kg	>18700 mg/kg
Hydrogen Peroxide	0.17 mg/L (no deaths)	1193 mg/kg	>2000 mg/kg

SECTION 12: ECOLOGICAL INFORMATION**Ecotoxicity**

See the following tables for the substance's ecotoxicity data.

Ecotoxicity data:

Ingredients	CASNo	Toxicity to Fish		
		LC50	NOEC	M Factor
Ethanol	64-17-5	>100 mg/L	N/Av	None
Glycerin	56-81-5	51000 mg/L	N/Av	None
Hydrogen Peroxide	7722-84-1	16.4 mg/L	N/Av	None



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Ingredients	CASNo	Toxicity to Daphnia		
		EC50	NOEC	M Factor
Ethanol	64-17-5	5012 mg/L	N/Av	None
Glycerin	56-81-5	1851 mg/L	N/Av	None
Hydrogen Peroxide	7722-84-1	2.4 mg/L	N/Av	None

Ingredients	CASNo	Toxicity to Algae		
		EC50	NOEC	M Factor
Ethanol	64-17-5	1000 mg/kg	N/Av	None
Glycerin	56-81-5	77712 mg/L	N/Av	None
Hydrogen Peroxide	7722-84-1	N/Av	0.63 mg/L	None

Persistence and degradability: No data is available on the product itself.

Bioaccumulation potential: No data is available on the product itself.

Ingredient	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
Ethanol	-0.31	1.0
Glycerin	1.50	no bioaccumulation
Hydrogen Peroxide	-1.76	3.162

SECTION 13: DISPOSAL CONSIDERATIONS

Handling for Disposal: Handle waste according to recommendations in Section 7.

Methods of Disposal: Dispose in accordance with all applicable federal, state, provincial and local regulations.

RCRA: If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.







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SECTION 14: TRANSPORT INFORMATION

Regulation	UN Number	Proper Shipping name	Hazard class	PG	Label
49CFR	UN1170	Ethanol	3	II	
TDG	UN1170	Ethanol	3	II	
IATA	UN1170	Ethanol	3	II	
IMDG	UN1170	Ethanol	3	II	

TDG Limited Quantity: May be shipped as LIMITED QUANTITY when transported in quantities no larger than 1 Litre, in packages not exceeding 30 kg gross mass.

SECTION 15: REGULATORY INFORMATION

US Federal Information: Components listed below are present on the following U.S. Federal chemical lists:

Ingredients	CASNo	TSCA	RQ	SARA 302	SARA 313	De Minimus
Ethanol	64-17-5	Yes	None	None	No	None
Glycerin	56-81-5	Yes	None	None	No	None
Hydrogen Peroxide	7722-84-1	Yes	None	1000 lb TPQ	No	None

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Flammable; Eye irritation, specific target organ toxicity-single exposure.

Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

US State Right to Know Laws:



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Ingredients	CASNo	California Prop 65		State "Right to know" lists					
		Listed	Type of toxicity	CA	MA	MN	NJ	PA	RI
Ethanol	64-17-5	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Glycerin	56-81-5	No	N/Ap	No	Yes	Yes	Yes	Yes	Yes
Hydrogen Peroxide	7722-84-1	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes

International Information: Components listed below are present on the following International Inventory list:

Ingredients	CASNo	EINECS	Canada	Australia	Philippines	Japan	Korea	China	New Zealand
Ethanol	64-17-5	200-578-6	Present	Present	Present	Present	Present	Present	Present
Glycerin	56-81-5	200-289-5	Present	Present	Present	Present	Present	Present	Present
Hydrogen Peroxide	7722-84-1	231-765-0	Present	Present	Present	Present	Present	Present	Present

SECTION 16: OTHER INFORMATION

Legend

ACGIH: American Conference of Governmental Industrial Hygienists
 CA: California
 CAS: Chemical Abstract Services
 CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
 CFR: Code of Federal Regulations
 CSA: Canadian Standards Association
 DOT: Department of Transportation
 EPA: Environmental Protection Agency
 HSDB: Hazardous Substances Data Bank
 IARC: International Agency for Research on Cancer
 IATA: International Air Transport Association
 ICAO: International Civil Aviation Organisation
 IMDG: International Maritime Dangerous Goods
 Inh: Inhalation
 LC: Lethal Concentration
 LD: Lethal Dose
 MA: Massachusetts
 MN: Minnesota
 N/Ap: Not Applicable
 N/Av: Not Available



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NJ: New Jersey
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
PA: Pennsylvania
PEL: Permissible exposure limit
RCRA: Resource Conservation and Recovery Act
RI: Rhode Island
RTECS: Registry of Toxic Effects of Chemical Substances
SARA: Superfund Amendments and Reauthorization Act
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System

References

1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices
2. International Agency for Research on Cancer Monographs, searched
3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, (Chempendium, HSDB and RTECs).
4. Material Safety Data Sheets from manufacturer.
5. US EPA Title III List of Lists
6. California Proposition 65 List
7. OECD - The Global Portal to Information on Chemical Substances -eChemPortal.

Preparation Date (mm/dd/yyyy): 02/02/2022

Revision information: N/Ap

Other special considerations for handling: Provide adequate information, instruction and training for operators.

Prepared for:

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DISCLAIMER

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