

Safety Data Sheet
70% ALCOHOL LIQUID HAND
SANITIZER CITRUS




AEROCHEM

1. Identification

Product identifier	70% ALCOHOL LIQUID HAND SANITIZER CITRUS
Product code	FLSANIH70118ML, FLSANIH70350ML, FLSANIH70500ML, FLSANIH703.78L, FLSANIH7020L, FLSANIH70208L, FLSANIH701000L
Other means of identification	None.
Recommended use of the chemical and restrictions on use	Hand sanitizer.
Manufacturer	AEROCHEM Inc. 5977 Trans Canada Highway Pointe-Claire, QC H9R 1C1 Canada General Information: 1-888-592-5837 www.aerochem.ca info@aerochem.ca
Emergency phone number	INFOTRAC®: 1-800-535-5053 International call collect: 1-352-323-3500 24 hours/day, 7 days/week

2. Hazard identification

Summary	Flammable liquid. Keep away from heat, sparks and open flame. Avoid contact with eyes. Do not breathe vapors. Do not ingest. If medical advice is needed, have this SDS or label at hand.
WHMIS 2015/GHS/OSHA HCS 2012	
	Flammable liquids (Category 2) Serious eye damage/eye irritation (Category 2B)
DANGER H225: Highly flammable liquid and vapour H320: Causes eye irritation P210: Keep away from heat, sparks, open flames and other ignition sources. No smoking. P240: Ground or bond container and receiving equipment. P241: Use explosion-proof electrical equipment. P242: Use only non-sparking tools. P243: Take precautionary measures against static discharge. P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. P337+313: If eye irritation persists: Get medical advice or attention. P403+P235+P233: Store in a well-ventilated place. Keep container tightly closed. Keep cool. P501: Dispose of contents and container to a licensed chemical disposal agency in accordance with local, regional and national regulations.	

3. Composition/information on ingredients

Common name	CAS	Weight % content
Ethyl alcohol	64-17-5	70 %

4. First-aid measures

Inhalation	Move person to fresh air. If a problem develops or persists, seek medical attention.
Skin contact	No first aid is necessary in normal use. In case of a spill, flush with water. Remove contaminated clothing and wash before reuse. If a problem develops or persists, seek medical attention.
Eye contact	Flush with water for at least 15 minutes. Remove contact lenses if easy to do. Hold eyelids apart to rinse properly. If a problem develops or persists, seek medical attention.
Ingestion	DO NOT induce vomiting, unless recommended by medical personnel. Never give anything by mouth if victim is unconscious or convulsing. If victim is conscious wash out mouth with water and give 1-2 glasses of water to drink. If a problem develops or persists, seek medical attention or contact a Poison Centre.
Other	No additional information.
Symptoms	May cause redness, tearing, and eye irritation.
Notes to the physician	No additional information.

5. Fire-fighting measures

Suitable extinguishing media	Dry chemicals, water fog, alcohol resistant foam, carbon dioxide (CO ₂). Do not use a heavy water jet.
Specific hazards arising from the chemical	Highly flammable liquid and vapour. May be ignited by heat, sparks, flame or static electricity. Vapours are heavier than air and may travel to an ignition source distant from the material handling point.
Special protective equipment	Firefighters must wear self contained breathing apparatus with full face mask. Firefighting suit may not be efficient against chemicals.
Special protective actions for fire-fighters	Use water spray to cool fire-exposed containers. Water may be ineffective to extinguish a fire, because mixtures of alcohol and water are also flammable. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	In the event of a large spill, wear nitrile or neoprene gloves. Wear chemical splash goggles.
Environmental precautions	Prevent entry into sewers, closed areas and release to the environment.
Methods and materials for containment and cleaning up	Ventilate the area well. Remove sources of ignition. Absorb with inert material (soil, sand, vermiculite) or wipe up with a damp mop and place in an appropriate waste disposal clearly identified. Finish cleaning by rinsing with water contaminated surface. Never return the spilled product into its original container for reuse.

7. Handling and storage

Precautions for safe handling	Keep away from heat, sparks and open flame. Use non-sparking and antistatic tools. Ground/bond all containers when transferring large quantities (5 gallons US or 20 L and more). Use in well ventilated area. Avoid contact with eyes. Do not breathe vapors. Wear eye protection and other protective clothing that are adapted to the task being performed and the risks involved. Keep containers tightly closed when not in use. Do not eat, do not drink and do not smoke during use. Remove contaminated clothing and shoes and wash before reuse.
Conditions for safe storage, including any incompatibilities	Storage and handling should follow the NFPA 30 Flammable and/or Combustible Liquids Code and the National Fire Code of Canada (NFCC). Ground or bond large containers. Store tightly closed and in properly labelled containers in a cool, dry and well ventilated place. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Store away from oxidizing materials and incompatible materials (see section 10). Keep away from direct sunlight and heat.
Storage temperature	<30°C (86°F)

8. Exposure controls/personal protection

Immediately Dangerous to Life or Health	Ethyl alcohol: 3300 ppm.		
Ethyl alcohol	STEL TWA (8h)	1000 ppm 1000 ppm	ACGIH , BC, ON RSST 1880 mg/m ³
Appropriate engineering controls	Provide sufficient mechanical ventilation (general or local exhaust) to keep the airborne concentrations of vapours, mists, aerosols or dust below their respective occupational exposure limits.		
Individual protection measures			
Eye	In the workplace, wear safety glasses with side shields. If there is a risk of contact with eyes, wear chemical splash goggles.		
Hands	No protective equipment is needed under normal use conditions. In the workplace, wear Nitrile gloves. Disposable nitrile gloves can also be used, but discard after single use.		
Skin	Wear work clothing as required by employer code.		
Respiratory	No respiratory protective equipment is required under normal conditions of use. Where the conditions in the workplace require a respirator, it is necessary to follow a respiratory protection program. Moreover, respiratory protection equipment (RPE) must be selected, fitted, maintained and inspected in accordance with regulations and standard 29 CFR 1910.134 (OSHA), ANSI Z88.2 or CSA Z 94.11 (Canada) and approved by NIOSH/MSHA. In case of insufficient ventilation or in enclosed area until maximum 10 times of exposure limit, wear half mask respirator with organic vapors cartridges.		
Feet	Wear rubber boots to clean up a spill.		

9. Physical and chemical properties

Physical state	Viscous liquid	Flammability	Flammable.
Colour	Translucent	Flammability limits	3.3 to 19%
Odour	Light citrus odor	Flash point	16 to 21 °C (60.8 to 69.8 °F) Tag Closed Cup tester
Odour threshold	N/Av.	Auto-ignition temperature	363 °C (685.4 °F)
pH	7	Sensibility to electrostatic charges	Yes

Melting point	<0°C (32°F)	Sensibility to sparks and/or friction	No
Freezing point	<0°C (32°F)	Vapour density	>1 (Air = 1)
Boiling point	78 to 79°C (172.4 to 174.2°F)	Relative density	0.86 to 0.87 kg/L (Water = 1)
Solubility	Soluble in water.	Partition coefficient n-octanol/water	N/Av.
Evaporation rate	N/Av.	Decomposition temperature	N/Av.
Vapour pressure	<6kPa (45 mm Hg) @ 20°C (68°F)	Viscosity	N/Av.
Percent Wt. Volatile	>99%	Molecular mass	N/Av.
VOC (g/L)	602 to 609 g/L	% Volume Volatile (VOC)	N/Av.
VOC (lb/gal)	5.024 to 5.082 lb/gal	% Wt. Volatile (VOC)	70%
N/Av.: Not Available N/Av.: Not Applicable Und.: Undetermined N/E: Not Established			

10. Stability and reactivity

Reactivity	No reactivity expected.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions (including polymerizations)	A dangerous reaction will not occur.
Conditions to avoid	Avoid heat, flame and sparks. Avoid contact with incompatible materials.
Incompatible materials	Strong oxidizing agents (e.g. chlorine, fluorine, nitric acid, perchloric acid, peroxides, nitrates, chlorates, chromates, permanganates and perchlorates).
Hazardous decomposition products	No decomposition product.

11. Toxicological information


Numerical measures of toxicity	Ethyl alcohol Ingestion 7060 mg/kg Rat LD50 Inhalation 39 mg/l/4h Mouse LC50 Skin 20000 mg/kg Rabbit LD50
Likely routes of exposure	Skin, eyes, inhalation, ingestion.
Delayed, immediate and chronic effects	<p>Eye contact May cause itching, redness and skin irritation. Ethanol (CAS no 64-17-5) is moderately irritating to the eyes (Rabbit, OECD 405).</p> <p>Skin contact Prolonged and repeated exposure may cause dry skin. Ethanol (CAS no 64-17-5) is not a skin irritant (Rabbit, OECD 404).</p> <p>Inhalation In the workplace, the product is rapidly absorbed by respiratory tract. May cause slight irritation of the respiratory system. Prolonged exposure may cause headache, dizziness and nausea. The severity of symptoms may vary depending on exposure conditions.</p> <p>Ingestion The ingestion of ethanol can cause euphoria, sensations of drunkenness followed by a depression of the central nervous system which can be manifested by headaches, nausea, dizziness, incoordination, blurred speech, mental confusion and narcosis.</p> <p>Respiratory or skin sensitization Ingredients present at levels greater than or equal to 0.1% of this product are not skin or respiratory sensitizers.</p> <p>IARC/NTP No ingredients listed.</p>

	<p>Classification</p> <p>Carcinogenicity Ingredients present at levels greater than or equal to 0.1% of this product are not listed as a carcinogen by IARC, ACGIH, NIOSH, NTP or OSHA. Ethanol when not consumed in an alcoholic beverage is not classifiable as a human carcinogen.</p> <p>Mutagenicity Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause mutagenic effects.</p> <p>Reproductive toxicity Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause reproduction effects.</p> <p>Specific target organ toxicity - single exposure No target organ is listed.</p> <p>Specific target organ toxicity - repeated exposure No target organ is listed.</p>
Interactive effects	No information available.
Other information	No additional information.

12. Ecological information

Ecological toxicity	<p>Fish - Pimephales promelas [flow-through] LC50 13400 mg/L; 96 h (CAS no 64-17-5)</p> <p>Aquatic Invertebrate - Daphnia magna EC50 9268 mg/L; 48 h (CAS no 64-17-5)</p> <p>Aquatic Plant - Algea, Chlorella vulgaris EC50 275 mg/L; 72 h (CAS no 64-17-5)</p>
Persistence	Not persistent in environment.
Degradability	The product is a mixture whose ingredients are readily biodegradable (> 60% in 28 days).
Bioaccumulative potential	The product is a mixture of which all ingredients have a low bioaccumulation potential (Log Kow of <3 and / or BCF <500).
Mobility in soil	The product is a mixture of which some ingredients evaporate very easily from the surface of the soil. Moreover, ingredients have very high mobility in soil.
Other adverse effects	This chemical does not deplete the ozone layer.

13. Disposal considerations

	Container Important! Prevent waste generation. Use in full. Organic solvents and wastes residues can be reprocessed (recycle) where there is a recovery program. Observe all federal, state/provincial and municipal regulations. If necessary consult the Department of Environment or the relevant authorities.
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14. Transport information

UN Number	UN 1993
UN Proper Shipping Name	FLAMMABLE LIQUID, N.O.S. (ethanol)
Environmental hazards	This material does not contain marine pollutant.
Special precautions for user	Permit required for transportation with proper DANGER placards displayed on vehicle. Exemption available: LTD QTY according to TDG Canada - art. 1.17 - Mode of transportation on sea, applicable

for Canadian domestic shipments. Quantitative limits: applicable for domestic containers containing =< 5 L each.

TDG - Transportation of Dangerous Goods (Canada & US DOT)

Transport hazard class(es)



Class 3

Packing group

II

Emergency response guidebook 2016

128

TM/MD

IMO/IMDG - International Maritime Transport

Classification

UN 1993. FLAMMABLE LIQUID, N.O.S. (ethanol). Class 3, PG II. Emergency schedules (EmS-No) F-E, S-E

IATA - International Air Transport Association

Classification

UN 1993. FLAMMABLE LIQUID, N.O.S. (ethanol). Class 3, PG II.

These transportation classifications are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. In addition, if a domestic exemption exists, it is the responsibility of the shipper to define the application of it.

15. Regulatory information

CANADA

Common name	CAS	CEPA	DSL	NDSL	NPRI
Ethyl alcohol	64-17-5	X	X		X

- CEPA: List of Toxic Substances Managed Under Canadian Environmental Protection Act
- DSL: Domestic Substances List Inventory
- NDSL: Non-Domestic Substances List Inventory
- NPRI: National Pollutant Release Inventory Substances

UNITED STATE OF AMERICA

Common name	CAS	TSCA	CER CLA	EPCRA 313	EPCRA 302/304	CAA 112(b) HON	CAA 112(b) HAP	CAA 112(r)	CWA 311	CWA Prio.
Ethyl alcohol	64-17-5	X								

- TSCA: Toxic Substance Control Act
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act list of hazardous substances
- EPCRA 313: Emergency Planning and Community Right-to-Know Act, Section 313 Toxic Chemicals
- EPCRA 302/304: Emergency Planning and Community Right-to-Know Act, Section 302/304 Extremely Hazardous Substances
- CAA 112(b) HON: Clean Air Act - Hazardous Organic National Emission Standard for Hazardous Air Pollutant
- CAA 112(b) HAP: Clean Air Act - Hazardous Air Pollutants lists pollutants
- CAA 112(r): Clean Air Act - Regulated Chemicals for Accidental Release Prevention
- CWA 311: Clean Water Act - List of Hazardous Substances
- CWA Priority: Clean Water Act - Priority Pollutant list


California Proposition 65

No ingredients listed.

Other regulations

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HMIS**NFPA****16. Other information**

Date (YYYY-MM-DD)	AEROCHEM Inc. 2020-07-20
Version	01
Other information	<p>REFERENCES:</p> <ul style="list-style-type: none"> - Service du répertoire toxicologique de la Commission des normes, de l'équité, de la santé et de la sécurité du travail (CNESST), http://www.reptox.csst.qc.ca - Haz-Map, Information on Hazardous Chemicals and Occupational Diseases, https://haz-map.com/ - NIOSH Pocket Guide to Chemical Hazards, Centers for Disease Control and Prevention, NIOSH Publications, 2007, http://www.cdc.gov/niosh/npg/npg.html - The National Center for Biotechnology Information, National Institutes of Health (NIH), U.S. National Library of Medicine, https://pubchem.ncbi.nlm.nih.gov/ <p>ACGIH: American Conference of Governmental Industrial Hygienists AIHA: American Industrial Hygiene Association HMIS: Hazardous Materials Identification System NFPA: National Fire Protection Association OSHA: Occupational Safety and Health Administration (USA) NIOSH: National Institute for Occupational Safety and Health NTP: National Toxicology Program RSST: Règlement sur la santé et la sécurité du travail (Québec) GHS: Globally Harmonized System IARC: International Agency for Research on Cancer IDLH: Immediately Dangerous to Life or Health STEL: Short Term Exposure Limit (15 min) TWA: Time Weighted Averages WHMIS: Workplace Hazardous Materials Information System</p>
Powered by  A global vision of prevention	<p>To the best of our knowledge, the information contained herein is accurate. However, neither Preventis System nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.</p>