## Safety Data Sheet Liquid Hand Cleaner - 70% ALCOHOL



1. Identification						
Product identifier	Liquid Hand Cleaner - 70% ALCOHOL					
Product code	LSANIH70350ML ; FLSANIH70500ML ; FLSANIH7020L ; FLSANIH70208L					
Other means of identification	one.					
Recommended use of the chemical and restrictions on use	Hand sanitizer. Not recommended for any other use not detailed on product data sheet or label.					
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 <sup>®</sup> : 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 2)

### DANGER

- H225: Highly flammable liquid and vapour
- H319: Causes serious 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.
- P280: Wear eye protection.
- 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	60 - 80 %			
Isopropyl alcohol	67-63-0	3 - 7 %			
Ethyl acetate	141-78-6	1 - 5 %			

Note: The manufacturer withholds the actual concentration range of the ingredients as a trade secret.

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 o 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.					

Suitable extinguishing Dry chemicals, water fog, alcohol resistant foam, carbon dioxide (CO2). Do not use						
media	bry chemicals, water log, alcohor resistant loain, carbon dioxide (CC2). Do not doe a hoavy 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 no 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	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				

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 transfering 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)

		-		
o. Exposure c	ontrols/person	al protection		
Immediately Dangerous to Life or Health	Ethyl alcohol: 3300 Isopropyl alcohol: 2 Ethyl acetate: 2000	2000 ppm.		
Ethyl alcohol	STEL	1000 ppm		ACGIH , BC, ON
	TWA (8h)	1000 ppm	1880 mg/m <sup>3</sup>	RSST
Isopropyl alcohol	STEL	400 ppm		ACGIH, BC, ON
		500 ppm	1230 mg/m <sup>3</sup>	RSST
	TW <mark>A (8h)</mark>	200 ppm		ACGIH , BC, ON
		400 ppm	983 mg/m <sup>3</sup>	RSST
Ethyl acetate	TWA (8h)	150 ppm		BC
		400 ppm		ACGIH , ON
		400 ppm	1440 mg/m <sup>3</sup>	RSST
	l'antina	apeare, mete, aereeer		ctive occupational exposure
Individual protection	limits.			
Individual protection Eye	n measures	vear safety glasses wit		risk of contact with eyes, wear
	In the workplace, v chemical splash go No protective equi	vear safety glasses wit oggles. oment is needed under	h side shields. If there is a	risk of contact with eyes, wear the workplace, wear Nitrile gloves.
	In the workplace, v chemical splash go No protective equi Disposable nitrile g	vear safety glasses wit oggles. oment is needed under	h side shields. If there is a normal use conditions. In d, but discard after single u	risk of contact with eyes, wear the workplace, wear Nitrile gloves.
Eye Hands	In the workplace, v chemical splash go No protective equip Disposable nitrile g Wear work clothing No respiratory prot in the workplace re Moreover, respirator in accordance with (Canada) and appro	vear safety glasses with oggles. oment is needed under loves can also be used g as required by employ ective equipment is red oquire a respirator, it is ory protection equipme regulations and stand oved by NIOSH/MSH/	h side shields. If there is a normal use conditions. In d, but discard after single u yer code. quired under normal condit necessary to follow a resp ent (RPE) must be selected ard 29 CFR 1910.134 (OS A. In case of insufficient ve	risk of contact with eyes, wear the workplace, wear Nitrile gloves.

9. Physical and	chemical properties				
Physical state	Viscous liquid	Flammability	Flammable.		
Colour	Translucent	Flammability limits	2 to 19%		
Odour	Slight alcohol odor	Flash point	21°C (69.8°F) Tag Closed Cup tester		
Odour threshold	N/Av.	Auto-ignition temperature	363 to 425°C (685.4 to 797°F)		
рН	7	Sensibility to electrostatic charges	Yes		
Melting point	<0°C (32°F)	Sensibility to sparks and/or friction	No IIVI/IVID		
Freezing point	<0°C (32°F)	Vapour density	>1 (Air = 1)		
Boiling point	77 to 79°C (170.6 to 174.2°F)	Relative density	0.862 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	<20 cSt @ 40°C (104°F)		
Percent Volatile	>99%	Molecular mass	N/Ap.		
N/Av.: 1	Not Available N/Ap.: 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 a peroxides, nitrates, chlorates, chromates, permanganates and perchloric acid,	
Hazardous decomposition products	No decomposition product.

# 11. Toxicological information

Numerical measures of toxicity	Ethyl alcohol Isopropyl alcohol	Inhalation Skin Ingestion	7060 mg/kg 39 mg/l/4h 20000 mg/kg 5045 mg/kg 3600 mg/kg	Mouse Rabbit	LD50 LD50			
			66.1 mg/l/4h		LC50			
		Skin	6280 mg/kg	Rat	LD50			
	Ethyl acetate	Ingestion	5620 mg/kg	Rat	LD50			
		Inhalation	38.2 mg/l/4h	Mouse	LC50			
		Skin	>18000 mg/kg	Rabbit	LD50			

Skin, eyes, inhalation, ingestion.

Likely routes of exposure		
Delayed, immediate and chronic effects	Eye contact	May cause itching, redness and skin irritation. Eye Irritation/Corrosion, Rabbit (OECD TG 405): tests performed with each ingredient of this mixture gave not irritating to irritating results.
	Skin contact	Prolonged and repeated exposure may cause dry skin. Skin Irritation/Corrosion, Rabbit (OECD 404) : tests performed with each ingredient of this mixture gave not irritating results.
	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.
	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.
		Ingredients present at levels greater than or equal to 0.1% of this product are not skin
	sensitization	or respiratory sensitizers.
	IARC/NTP Classification	No ingredients listed.
	Carcinogenicity	Ingredients present at levels greater than or equal to 0.1% of this product are not
	Carcinogenicity	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.
L	Mutagenicity	Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause mutagenic effects.
	Reproductive toxicity	Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause reproduction effects.
	Specific target organ toxicity - single exposure	No target organ is listed.
	Specific target organ toxicity - repeated exposure	No target organ is listed.
Interactive effects	No information availa	ble.
Other information	mg/kg. The acute tox mg/L/4h for vapours a	te toxicity estimates (ATE) of the mixture were calculated to be greater than 2000 icity estimates (ATE) by inhalation of the mixture were calculated to be greater than 20 and to be greater than 5 mg/L/4h for the aerosols and mists. These values are not o WHMIS 2015 and OSHA HCS 2012.

## 12. Ecological information

Ecological toxicity	Fish - Pimephales promelas [flow-through] Aquatic Invertebrate - Daphnia magna	LC50 13400 mg/L; 96 h (CAS no 64-17-5) EC50 9268 mg/L; 48 h (CAS no 64-17-5)					
	Aquatic Plant - Algea, Chlorella vulgaris EC50 275 mg/L; 72 h (CAS no 64-17-5						
	Fish - Fathead minnow, Pimephales promelas - fresh water LC50 9640 mg/L; 96 h (CAS no 67-63-						
	Aquatic Invertebrate - Daphnia magna	EC50 3644 mg/L; 48 h (CAS no 67-63-0)					
	Fish - Pimephales promelas - Fresh water	LC50 220 mg/L; 96 h (CAS no 141-78-6)					
	Aquatic Invertebrate - Daphnia magna	EC50 560 mg/L; 48 h (CAS no 141-78-6)					
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. 11 / 15 Л

### 14. Transport information

UN Number	UN 1993				
UN Proper Shipping Name	FLAMMABLE LIQUID, N.O.S. (ethanol, ethyl acetate)				
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: rail, sea and road, applicable for Canadian domestic shipments. Quantitative limits: applicable for domestic containers (plastic bottles, glass or metal) containing =< 5 L each.				
TDG - Transportation o	f Dangerous Goods (Canada)				
Transport hazard class(es)	Class 3				
Packing group					
Emergency response guidebook 2016	128				
IMO/IMDG - Internation	al Maritime Transport				
Classification	UN 1993. FLAMMABLE LIQUID, N.O.S. (ethanol, ethyl acetate) 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, ethyl acetate) Class 3, PG II.				
	are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper kaging. 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	Х	Х		Х
Isopropyl alcohol	67-63-0	Х	Х		Х
Ethyl acetate	141-78-6	Х	Х		Х

- 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

CAS			EPCRA 313	EPCRA 302/304	CAA 112(b) HON	CAA 112(b) HAP	CAA 112(r)		CWA Prio.
64-17-5	Х				0				
67-63-0	Х		X					// / 15	Ĺ
141-78-6	Х	Х							
	64-17-5 67-63-0	64-17-5 X 67-63-0 X	64-17-5         X           67-63-0         X	CAS         ISCA         CLA         313           64-17-5         X	CAS         ISCA         CLA         313         302/304           64-17-5         X	CAS         TSCA         CER CLA         EPCRA 313         EPCRA 302/304         EPCRA 112(b) HON           64-17-5         X	CAS         TSCA         CER CLA         EPCRA 313         EPCRA 302/304         112(b) HON         112(b) HAP           64-17-5         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X	CAS         TSCA         CER CLA         EPCRA 313         EPCRA 302/304         112(b) HON         112(b) HAP         112(b) 112(r)           64-17-5         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X <td< td=""><td>CAS         TSCA         CER CLA         EPCRA 313         EPCRA 302/304         112(b) HON         112(b) HAP         CAA 112(r)         CWA 311           64-17-5         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X</td></td<>	CAS         TSCA         CER CLA         EPCRA 313         EPCRA 302/304         112(b) HON         112(b) HAP         CAA 112(r)         CWA 311           64-17-5         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         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**

Common name		CAS	Cancer	Reproductive and Developmental Toxicity
Ethyl alcohol	cohol 64-17-5 X		Х	Х
Other regulations	This prod harm. Ethyl alco Contains	o <mark>hol in a</mark> lcoholic b	nicals known to the s everages, an cause cancer acc	State of California to cause birth defects or other reproductive cording to the state of California.
	Heath Flamabi	lity	NFPA	

16. Other information					
Date (YYYY-MM-DD)	AEROCHEM Inc. 2020-03-18				
Version	01				
Other information	<ul> <li>REFERENCES:</li> <li>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</li> <li>Haz-Map, Information on Hazardous Chemicals and Occupational Diseases, https://haz-map.com/</li> <li>NIOSH Pocket Guide to Chemical Hazards, Centers for Disease Control and Prevention, NIOSH Publications, 2007, http://www.cdc.gov/niosh/npg/npg.html</li> <li>The National Center for Biotechnology Information, National Institutes of Health (NIH), U.S. National Library of Medicine, https://pubchem.ncbi.nlm.nih.gov/</li> </ul>				

	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
Powered by	To the best of our knowledge, the information contained herein is accurate. However, neither Prī¿½ventis 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.
A global vision of prevention	