


SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Gel Hand Sanitizer			
Product Use: <i>Hand Sanitizer</i>			
Manufacturer's Name: Forsythe Lubrication Associates Ltd.			
Street Address: 120 Chatham Street			
City: Hamilton	Province: ON	Postal Code: L8P 2B5	Emergency Telephone: 905-525-7192

SECTION 2 – HAZARDS IDENTIFICATION

Classification	Eye Irritation - Category 2A Flammable Liquids - Category 3
GHS Label Elements:	
Hazard pictograms:	
Signal word:	Warning
Hazard statement(s):	Flammable liquid and vapour Causes serious eye irritation
Precautionary Statements – Prevention:	
Wear eye/face protection.	
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	
Keep containers tightly closed.	
Ground/bond container and receiving equipment.	
Use explosion-proof electrical, ventilating and lighting equipment.	
Only use non-sparking tools.	
Take action to prevent static discharges.	

Precautionary Statements – Response:

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.

In case of fire, use carbon-dioxide, alcohol foam, water spray or dry chemical to extinguish.

Precautionary Statements – Storage:

Store in a well-ventilated place. Keep cool.

Precautionary Statements – Disposal:

Dispose of contents and containers in accordance with local, national and international regulations.

Physical and Health Hazards Not Otherwise Classified (HNOC):

None.

Precautionary Statements – Storage:

Store in a well-ventilated place. Keep cool.

Precautionary Statements – Disposal:

Dispose of contents and containers in accordance with local, national and international regulation.

Physical and Health Hazards Not Otherwise Classified (HNOC):

None

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Component	% by Wt.	CAS Number
Ethyl Alcohol	70 - 80	64-17-5

Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality.

SECTION 4 – FIRST AID MEASURES

EYE CONTACT:	Immediately flush eyes with water, for at least 15 minutes or until irritation subsides. If easy to do, remove contact lenses, if worn. If irritation persists, consult a physician.
SKIN CONTACT:	Wash contacted skin areas with soap and water. If irritation develops, consult a physician. Soaked clothing should be removed.
INHALATION:	If inhaled, remove to fresh air. If symptoms present or in all cases of doubt, seek medical advice.
INGESTION:	Do not induce vomiting. Rinse mouth and throat and give sips of water to dilute. Seek medical attention.

SECTION 5 – FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:	Carbon dioxide, water mist, alcohol-resistant foam
UNSUITABLE EXTINGUISHING MEDIA:	Water is generally unsuitable for large, open pools of alcohol and may help spread the fire. Do not use a straight stream of water.
SPECIFIC HAZARDS DURING FIREFIGHTING:	Vapours may form explosive mixtures with air. Vapours may travel to the source of ignition and flash back.
FIRE-FIGHTING PROCEDURES:	Water spray may be used to cool unopened containers. Isolate immediate hazard area and keep unauthorized personnel out. Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters.
PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS:	Fire-fighters should wear personal protective equipment (PPE) and self-contained breathing apparatus (SCBA), with a full face-piece, operated in a positive pressure mode.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURE:	Eliminate all ignition sources (no smokes, flares, sparks or flames in the immediate area). Do not touch or walk through spilled material. Ventilate closed spaces before entering. Evacuate and isolate hazard area and keep unauthorized personnel away. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur. Stay uphill and/or upstream. All equipment used when handling the product must be grounded.
RECOMMENDED EQUIPMENT:	Wear chemical protective clothing.
PERSONAL PROTECTION:	Wear appropriate protective equipment. Restrict access to unprotected personnel. Do not breathe vapour or mist. Do not get in eyes. Spilled material is slippery.
ENVIRONMENTAL PRECAUTIONS:	Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways, by using sand, earth or other appropriate barriers. Dike far ahead of the liquid spill for later disposal. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

SECTION 7 – HANDLING and STORAGE

HANDLING PROCEDURES:	Put on appropriate personal protective equipment (Section 8). Eating, drinking and smoking should be prohibited in areas where material is handled, stored and processed. Workers should wash their face and hands before eating, drinking or smoking. Avoid contact with skin, eyes and clothing. Keep containers away from heat, sparks and open flames. Keep containers closed when not in use.
STORAGE PROCEDURES:	Store in a cool, well ventilated area. Take precautions to prevent static electricity build-up when transferring contents.

SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION

ENGINEERING MEASURES:	The ventilation system should be non-sparking, grounded and separate from other exhaust ventilation systems. Local ventilation is recommended when handling.
PERSONAL PROTECTIVE EQUIPMENT:	Not required under normal conditions of use
RESPIRATORY PROTECTION:	Not required under normal conditions of use
EYE PROTECTION:	Use chemical resistant safety glasses/goggles when handling.
SKIN and BODY PROTECTION:	Not required under normal conditions of use
HYGIENE MEASURES:	Remove contaminated clothing and wash before reuse.

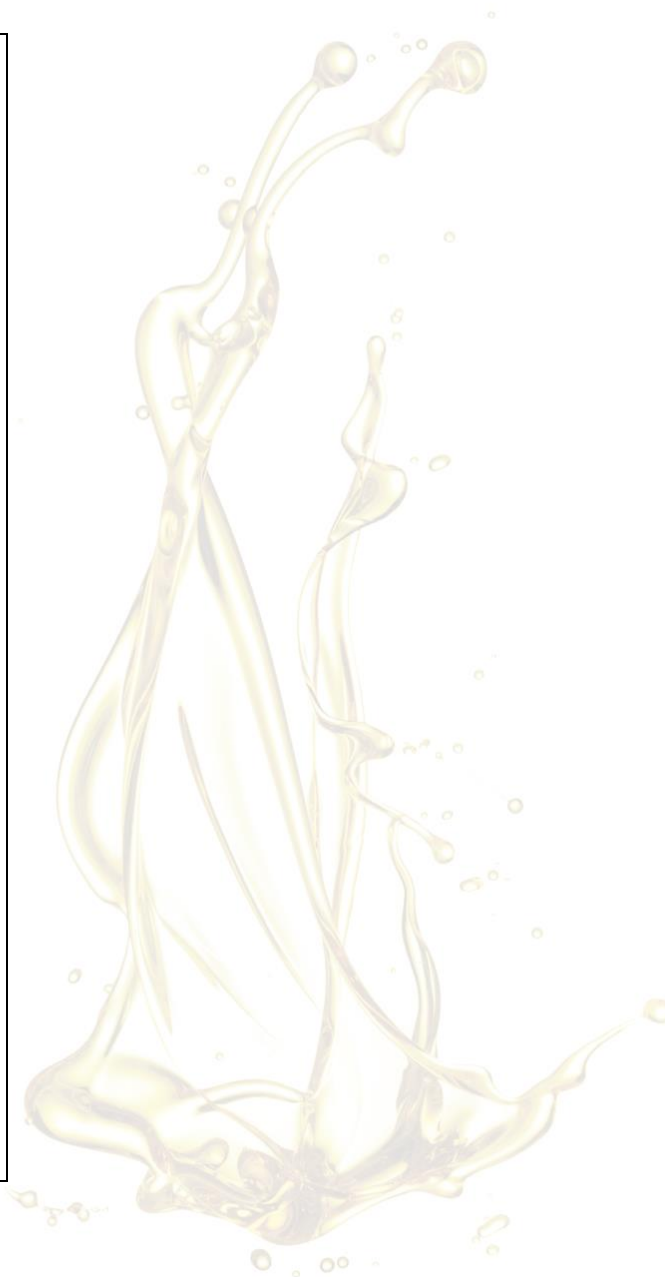
Chemical Name	ACGIH TWA (mg/m3)	ACGIH TWA (ppm)	ACGIH STEL (mg/m3)	ACGIH STEL (ppm)	ACGIH Carcinogen	ACGIH Notations	ACGIH TLV Basis	CAN-ON tmg
ETHYL ALCOHOL				1000	A3	A3	URT irr	
Chemical Name	CAN-ONtppm	CAN-ONsmg	CAN-ONspmm	OSHA TWA (mg/m3)	OSHA TWA (ppm)	OSHA STEL (mg/m3)	OSHA STEL (ppm)	OSHA Carcinogen
ETHYL ALCOHOL				1900	1000			
Chemical Name	OSHA Skin designation	OSHA Tables						
ETHYL ALCOHOL		1						

(C) – Ceiling limit, A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans, A4 - Not Classifiable as a Human Carcinogen, BEI - Substances for which there is a Biological Exposure Index or Indices, CNS - Central nervous system, impair - Impairment, irr - Irritation, URT - Upper respiratory tract

The information in the Section above does not list components that might have relevant OSHA Tables (Z1, Z2, Z3), OSHA TWA (mg/m³), OSHA TWA (ppm), ACGIH TWA (ppm), ACGIH Carcinogen, ACGIH Notations and ACGIH TLV Basis regulatory values, if they are present at less than 1%.

SECTION 9 – PHYSICAL and CHEMICAL PROPERTIES

Density	7.42203 lb/gal
Specific Gravity	.8910
% Solids by Weight	0.01270%
% VOC	5.46309%
Appearance	Slightly blue gel
Odor Threshold	N/A
Odor Description	Fresh
Ph	6.5-8.5
Water Solubility	N/A
Flammability	N/A
Flash Point Symbol	N/A
Flash Point	24 °C
Viscosity	80 - 100 cPs
Lower Explosion Level	N/A
Upper Explosion Level	N/A
Vapour Pressure	N/A
Vapour Density	N/A
Freezing Point	N/A
Melting Point	N/A
Low Boiling Point	N/A
High Boiling Point	N/A
Auto Ignition Temp	N/A
Decomposition Pt	N/A
Evapouration Rate	N/A
Coefficient Water/Oil	N/A



SECTION 10 – STABILITY and REACTIVITY

STABILITY:	Stable under normal conditions
CONDITIONS TO AVOID:	Sources of ignition, extreme temperatures and contact with incompatible materials
HAZARDOUS POLYMERIZATION/REACTIONS:	Vapours may form explosive mixtures with air.

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For more information,
Call 1-800-363-2759 or
email: gforsythe@forsythe.on.ca

INCOMPATIBLE MATERIALS:	Strong oxidizing agents
HAZARDOUS DECOMPOSITION PRODUCTS	None known

SECTION 11 – TOXICOLOGICAL INFORMATION

Likely Route of Exposure:	Inhalation, ingestion, skin contact, eye contact
Aspiration Hazard:	No data available
Carcinogenicity:	No data available
Germ Cell Mutagenicity:	No data available
Reproductive Toxicity:	No data available
Respiratory/Skin Sensitization:	No data available
Serious Eye Damage/Irritation:	Causes serious eye irritation
Skin Corrosion/Irritation:	No data available
Specific Target Organ Toxicity - Repeated Exposure:	No data available
Specific Target Organ Toxicity - Single Exposure:	No data available
Acute Toxicity:	<p>May be harmful if swallowed.</p> <p>The Acute Toxicity Estimate (ATE) for an oral exposure to this mixture is >5000 mg/kg body weight. The Acute Toxicity Estimate (ATE) for a dermal exposure to this mixture is >5000 mg/kg body weight. The Acute Toxicity Estimate (ATE) for an inhalation (vapour) exposure to this mixture is >20 mg/l.</p> <p>0000064-17-5 ETHYL ALCOHOL</p> <p>Inhalation can irritate the nose, throat and lungs.</p>
Likely Routes of Exposure:	<p>Inhalation, ingestion, skin contact, eye contact</p> <p>0000064-17-5 ETHYL ALCOHOL</p> <p>The substance can be absorbed into the body by inhalation of its vapour or by ingestion.</p>
Potential Health Effects – Miscellaneous:	<p>0000064-17-5 ETHYL ALCOHOL</p> <p>The following medical conditions may be aggravated by exposure: liver disease. Tests in some laboratory animals indicate this compound may have embryotoxic activity. Tests in animals demonstrate reproductive toxicity. Ingestion may cause any of the following: stupor (central nervous system depression), gastrointestinal irritation. If absorbed through the skin, may be harmful.</p> <p>LC50 (mouse): Approximately 21000 ppm (4-hour exposure); cited as 39 g/m3 (4-hour exposure) (1, unconfirmed)</p> <p>LD50 (oral, rat): 7060 mg/kg (41); 10600 mg/kg (41); 13660 mg/kg (37)</p> <p>LD50 (oral, mouse): 3450 mg/kg (1, unconfirmed)</p> <p>LD50 (oral, guinea pig): 5560 mg/kg (37)</p>
Toxicity:	0000064-17-5 ETHYL ALCOHOL

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Persistence and Degradability:	S gairdneri: 13.0g/l (96hr LC50) Nauplii: 858 g/l (48hr EC50) Ceriodaphnia dubia: 9.6mg/l (10 day NOEC) Freshwater Fish 250mg/l (NOEC) Reference: REACH registration Dossier. 0000064-17-5 ETHYL ALCOHOL Readily biodegradable. Half-life in air = 38 h
Bio-accumulative Potential:	0000064-17-5 ETHYL ALCOHOL Substance has a low potential for bioaccumulation (log Kow3),
Mobility in Soil:	No data available
Mobility in Soil:	No data available
Results of the PBT and vPvB Assessment:	No data available

SECTION 12 – ECOLOGICAL INFORMATION

ECOTOXICITY: Ethyl Alcohol LC50 / 96 HOUR Oncorhynchus mykiss (rainbow trout) > 10,000 mg/l LC50 / 96 HOUR Pimephales promelas (fathead minnow) > 13,400 mg/l Growth inhibition / 96 HOURS Chlorella vulgaris (Fresh water algae) 1,000 mg/l Toxicity Threshold / Pseudomonas putida 6,500 mg/l
PERSISTENCE and DEGRADABILITY: 0000064-17-5 ETHYL ALCOHOL Readily biodegradable. Half-life in air = 38 h 0000067-63-0 ISOPROPYL ALCOHOL
BIOACCUMULATION: Bioaccumulation is unlikely
OTHER ADVERSE EFFECTS: No information available

SECTION 13 – DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:	All disposal activities must comply with local, state/provincial and environmental control regulations. Do not dispose into the environment, in drains or in rivers, ponds, lakes, water courses or soil.
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SECTION 14 – TRANSPORT INFORMATION

	Canadian TDG Information	U.S. DOT Information
UN Number:	UN1987	UN1987
Proper Shipping Name:	ALCOHOLS, N.O.S. (Ethanol, Propan-2-ol)	ALCOHOL, N.O.S. (Ethanol, Propan-2-ol)
Hazard Class:	3	3
Packaging Group:	III	III
Hazardous Substance (RQ):	No Data Available	No Data Available
Marine Pollutant:	No Data Available	No Data Available
Note / Special Provision:	No Data Available	No Data Available
Toxic-Inhalation Hazard:	No Data Available	No Data Available

SECTION 15 – REGULATORY INFORMATION

CAS	Chemical Name	% by Weight	Regulation List
000064-17-5	ETHYL ALCOHOL	65% - 85%	Canada NPRI, DSL, Canada NPRI Part 5, IARC Carcinogen, TSCA, Canada ON 419, Canada ON AAQC - Ontario Ambient Air Quality Criteria, CAN VOC – Canada VOC

The information in the Section above does not list non-hazardous components that might have relevant Canada ON JSL – Canada ON Jurisdictional Screening Level, Canada ON VOC, DSL, TSCA regulatory values, if they are present at less than 2%. Please contact the manufacturer for more information.

SECTION 16 – OTHER INFORMATION

Revision date: MAY, 2020