



# SAFETY DATA SHEET

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NGHS / English



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## 1. IDENTIFICATION

### Product identifier

Product Name GERMX NO IPA SANI

### Other means of identification

Product Code(s) 1178559\_SP

### Recommended use of the chemical and restrictions on use

Recommended Use Hand sanitizer

Restrictions on use No information available

### Details of the supplier of the safety data sheet

Supplier Identification Vi-Jon Inc.

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MO  
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US

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### Emergency telephone number

Company Emergency Phone Number 18004249300

## 2. HAZARDS IDENTIFICATION

### Classification

Flammable liquids	Category 3
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**Appearance** Clear

**Physical state** Viscous liquid

**Odor** Alcohol

**GHS Label elements, including precautionary statements**

**Warning**

**Hazard statements**

Flammable liquid and vapor



**Precautionary Statements - Prevention**

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

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof electrical/ ventilating/ lighting/ equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Wear protective gloves/eye protection/face protection

**Precautionary Statements - Response**

**Skin**

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

**Fire**

In case of fire: Use CO<sub>2</sub>, dry chemical, or foam to extinguish

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other information**

Toxic to aquatic life.

**Unknown acute toxicity** 57.37638 % of the mixture consists of ingredient(s) of unknown toxicity

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

57.37638 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

57.37638 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

57.37638 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

1.99 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance**

Not applicable.

**Mixture**

Chemical name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Ethyl alcohol	64-17-5	55.38638	-	-
Water, distilled, conductivity or of similar purity	7732-18-5	42.21834	-	-
Glycerin	56-81-5	1.99	-	-
Acrylates/C10-30 Alkyl Acrylate Crosspolymer	NA390	0.2	-	-
T-butyl alcohol	75-65-0	0.072	-	-
Fragrance (Irritating to eyes)	Fragrance	0.069997	-	-
Diisopropylamine	108-18-9	0.06169	-	-
Benzophenone-4	4065-45-6	0.000992	-	-
Denatonium benzoate	3734-33-6	0.000415	-	-
Isopropylamine	75-31-0	0.000062	-	-
Isopropyl alcohol	67-63-0	0.000062	-	-
Acetone	67-64-1	0.000062	-	-
Tocopherol	10191-41-0	0.000003	-	-
Benzophenone-3	131-57-7	0.000001	-	-

#### 4. FIRST AID MEASURES

**Description of first aid measures**

<b>Inhalation</b>	Remove to fresh air.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water.
<b>Self-protection of the first aider</b>	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media** Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray. Alcohol resistant foam.

**Large Fire** CAUTION: Use of water spray when fighting fire may be inefficient.



<b>Unsuitable extinguishing media</b>	Do not scatter spilled material with high pressure water streams.
<b>Specific hazards arising from the chemical</b>	Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
<b>Hazardous Combustion Products</b>	Carbon oxides.
<b>Explosion Data</b>	
<b>Sensitivity to Mechanical Impact</b>	NONE.
<b>Sensitivity to Static Discharge</b>	Yes.
<b>Special protective equipment for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.

**Other Information** Ventilate the area.

### Methods and material for containment and cleaning up

**Methods for containment** Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

**Methods for cleaning up** Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling** Use personal protection equipment. Avoid contact with skin and eyes. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national

regulations. Store in accordance with local regulations.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH	
Ethyl alcohol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup> (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m <sup>3</sup>	IDLH: 3300 ppm 10% LEL TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>	
Glycerin 56-81-5	TWA: 10 mg/m <sup>3</sup> mist	TWA: 15 mg/m <sup>3</sup> mist, total particulate TWA: 5 mg/m <sup>3</sup> mist, respirable fraction (vacated) TWA: 10 mg/m <sup>3</sup> mist, total particulate (vacated) TWA: 5 mg/m <sup>3</sup> mist, respirable fraction		
T-butyl alcohol 75-65-0	TWA: 100 ppm	TWA: 100 ppm TWA: 300 mg/m <sup>3</sup> (vacated) TWA: 100 ppm (vacated) TWA: 300 mg/m <sup>3</sup> (vacated) STEL: 150 ppm (vacated) STEL: 450 mg/m <sup>3</sup>	IDLH: 1600 ppm TWA: 100 ppm TWA: 300 mg/m <sup>3</sup> STEL: 150 ppm STEL: 450 mg/m <sup>3</sup>	
Diisopropylamine 108-18-9	TWA: 5 ppm S*	TWA: 5 ppm TWA: 20 mg/m <sup>3</sup> (vacated) TWA: 5 ppm (vacated) TWA: 20 mg/m <sup>3</sup> (vacated) S* S*	IDLH: 200 ppm TWA: 5 ppm TWA: 20 mg/m <sup>3</sup>	
Isopropylamine 75-31-0	STEL: 10 ppm TWA: 5 ppm	TWA: 5 ppm TWA: 12 mg/m <sup>3</sup> (vacated) TWA: 5 ppm (vacated) TWA: 12 mg/m <sup>3</sup> (vacated) STEL: 10 ppm (vacated) STEL: 24 mg/m <sup>3</sup>	IDLH: 750 ppm	
Isopropyl alcohol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m <sup>3</sup> (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m <sup>3</sup> (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m <sup>3</sup>	IDLH: 2000 ppm 10% LEL TWA: 980 mg/m <sup>3</sup> TWA: 400 ppm STEL: 500 ppm STEL: 1225 mg/m <sup>3</sup>	
Acetone 67-64-1	STEL: 750 ppm TWA: 500 ppm	TWA: 1000 ppm TWA: 2400 mg/m <sup>3</sup> (vacated) TWA: 750 ppm (vacated) TWA: 1800 mg/m <sup>3</sup> (vacated) STEL: 2400 mg/m <sup>3</sup> The acetone STEL does not apply to the cellulose acetate fiber industry. It is in effect for all other sectors (vacated) STEL: 1000 ppm	IDLH: 2500 ppm 10% LEL TWA: 250 ppm TWA: 590 mg/m <sup>3</sup>	
Chemical name	Alberta	British Columbia	Ontario TWAEV	Quebec
Ethyl alcohol	TWA: 1000 ppm	STEL: 1000 ppm	STEL: 1000 ppm	TWA: 1000 ppm

64-17-5	TWA: 1880 mg/m <sup>3</sup>			TWA: 1880 mg/m <sup>3</sup>
Glycerin 56-81-5	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 3 mg/m <sup>3</sup>		TWA: 10 mg/m <sup>3</sup>
T-butyl alcohol 75-65-0	TWA: 100 ppm TWA: 303 mg/m <sup>3</sup>	TWA: 100 ppm	TWA: 100 ppm	TWA: 100 ppm TWA: 303 mg/m <sup>3</sup>
Diisopropylamine 108-18-9	TWA: 5 ppm TWA: 21 mg/m <sup>3</sup> Skin	TWA: 5 ppm Skin	TWA: 5 ppm Skin	TWA: 5 ppm TWA: 21 mg/m <sup>3</sup> Skin
Isopropylamine 75-31-0	TWA: 5 ppm TWA: 12 mg/m <sup>3</sup> STEL: 10 ppm STEL: 24 mg/m <sup>3</sup>	TWA: 5 ppm STEL: 10 ppm	TWA: 5 ppm STEL: 10 ppm	TWA: 5 ppm TWA: 12 mg/m <sup>3</sup> STEL: 10 ppm STEL: 24 mg/m <sup>3</sup>
Isopropyl alcohol 67-63-0	TWA: 200 ppm TWA: 492 mg/m <sup>3</sup> STEL: 400 ppm STEL: 984 mg/m <sup>3</sup>	TWA: 200 ppm STEL: 400 ppm	TWA: 200 ppm STEL: 400 ppm	TWA: 400 ppm TWA: 985 mg/m <sup>3</sup> STEL: 500 ppm STEL: 1230 mg/m <sup>3</sup>
Acetone 67-64-1	TWA: 500 ppm TWA: 1200 mg/m <sup>3</sup> STEL: 750 ppm STEL: 1800 mg/m <sup>3</sup>	TWA: 250 ppm STEL: 500 ppm	TWA: 250 ppm STEL: 500 ppm	TWA: 500 ppm TWA: 1190 mg/m <sup>3</sup> STEL: 1000 ppm STEL: 2380 mg/m <sup>3</sup>

**Other Exposure Guidelines** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992). See section 15 for national exposure control parameters.

**Appropriate engineering controls**

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Tight sealing safety goggles.

**Hand protection** Wear suitable gloves. Impervious gloves.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

**Physical state** Viscous liquid  
**Appearance** Clear  
**Odor** Alcohol  
**Color** No information available  
**Odor Threshold** No data available

<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
pH	7		



Melting / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash Point	22 C / 72 F	
Evaporation Rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability limit	No data available	
Lower flammability limit	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	.90	
Water Solubility	Miscible in water	
Solubility(ies)	No data available	None known
Partition coefficient: n-octanol/water	0	
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known

**Other Information**

Explosive properties	No information available
Oxidizing properties	No information available
Softening Point	No information available
Molecular Weight	No information available
VOC Content (%)	No information available
Liquid Density	No information available
Bulk Density	No information available
Particle Size	No information available
Particle Size Distribution	No information available

## 10. STABILITY AND REACTIVITY

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of Hazardous Reactions	None under normal processing.
Hazardous Polymerization	Hazardous polymerization does not occur.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	None known based on information supplied.
Hazardous Decomposition Products	Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure****Product Information**

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available.

**Ingestion** Specific test data for the substance or mixture is not available.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** No information available.

**Numerical measures of toxicity**

**Acute Toxicity**

The following values are calculated based on chapter 3.1 of the GHS document .

**ATEmix (oral)** 12,495.30 mg/kg  
**ATEmix (inhalation-dust/mist)** 225.10 mg/L

**Unknown acute toxicity** 57.37638 % of the mixture consists of ingredient(s) of unknown toxicity  
 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity  
 57.37638 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity  
 57.37638 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)  
 57.37638 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)  
 1.99 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ethyl alcohol	= 7060 mg/kg ( Rat )	-	= 124.7 mg/L ( Rat ) 4 h
Water, distilled, conductivity or of similar purity	> 90 mL/kg ( Rat )	-	-
Glycerin	= 12600 mg/kg ( Rat )	> 10 g/kg ( Rabbit )	> 570 mg/m <sup>3</sup> ( Rat ) 1 h
T-butyl alcohol	= 2200 mg/kg ( Rat )	> 2 g/kg ( Rabbit )	> 10000 ppm ( Rat ) 4 h
Diisopropylamine	= 770 mg/kg ( Rat )	= 2000 mg/kg ( Rabbit )	= 4800 mg/m <sup>3</sup> ( Rat ) 2 h
Benzophenone-4	= 3530 mg/kg ( Rat )	-	-
Denatonium benzoate	= 584 mg/kg ( Rat )	-	-
Isopropylamine	= 111 mg/kg ( Rat )	= 382 mg/kg ( Rat )	= 4000 ppm ( Rat ) 4 h
Isopropyl alcohol	= 1870 mg/kg ( Rat )	= 4059 mg/kg ( Rabbit )	= 72600 mg/m <sup>3</sup> ( Rat ) 4 h
Acetone	= 5800 mg/kg ( Rat )	> 15700 mg/kg ( Rabbit )	= 50100 mg/m <sup>3</sup> ( Rat ) 8 h
Tocopherol	> 4000 mg/kg ( Rat )	> 3000 mg/kg ( Rat )	-
Benzophenone-3	= 7400 mg/kg ( Rat ) > 12.8 g/kg ( Rat )	> 16 g/kg ( Rabbit )	-

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** No information available.

**Serious eye damage/eye irritation** No information available.

**Respiratory or skin sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Ethyl alcohol 64-17-5	A3	Group 1	Known	X
Isopropyl alcohol	-	Group 3	-	X



67-63-0			
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**Legend****ACGIH (American Conference of Governmental Industrial Hygienists)**

A3 - Animal Carcinogen

**IARC (International Agency for Research on Cancer)**

Group 1 - Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

**NTP (National Toxicology Program)**

Known - Known Carcinogen

**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**

X - Present

**Reproductive toxicity** No information available.**STOT - single exposure** No information available.**STOT - repeated exposure** No information available.**Aspiration hazard** No information available.**12. ECOLOGICAL INFORMATION****Ecotoxicity** Toxic to aquatic life.

Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Ethyl alcohol	-	96h LC50: 12.0 - 16.0 mL/L (Oncorhynchus mykiss) 96h LC50: 13400 - 15100 mg/L (Pimephales promelas) 96h LC50: > 100 mg/L (Pimephales promelas)	EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min	24h EC50: = 10800 mg/L (Daphnia magna) 48h EC50: = 2 mg/L (Daphnia magna) 48h LC50: 9268 - 14221 mg/L (Daphnia magna)
Glycerin	-	96h LC50: 51 - 57 mL/L (Oncorhynchus mykiss)	-	24h EC50: > 500 mg/L (Daphnia magna)
T-butyl alcohol	72h EC50: > 1000 mg/L (Desmodesmus subspicatus)	96h LC50: 6130 - 6700 mg/L (Pimephales promelas)	EC50 > 10000 mg/L 17 h	48h EC50: 4607 - 6577 mg/L (Daphnia magna) 48h EC50: = 933 mg/L (Daphnia magna)
Diisopropylamine	96h EC50: = 20 mg/L (Pseudokirchneriella subcapitata)	96h LC50: = 37 mg/L (Oncorhynchus mykiss) 96h LC50: = 1000 mg/L (Poecilia reticulata) 96h LC50: 150 - 223 mg/L (Brachydanio rerio) 96h LC50: 420 - 560 mg/L (Oryzias latipes)	-	24h EC50: = 25.8 mg/L (Daphnia magna)
Isopropylamine	96h EC50: = 1.2 mg/L (Desmodesmus subspicatus) 72h EC50: = 4.13 mg/L (Desmodesmus subspicatus) 96h EC50: = 62.5 mg/L (Pseudokirchneriella subcapitata)	96h LC50: = 310 mg/L (Pimephales promelas)	EC50 = 99 mg/L 17 h	48h EC50: = 20.8 mg/L (Daphnia magna)
Isopropyl alcohol	96h EC50: > 1000 mg/L (Desmodesmus)	96h LC50: = 11130 mg/L (Pimephales promelas)	-	48h EC50: = 13299 mg/L (Daphnia magna)

	subspicatus) 72h EC50: > 1000 mg/L (Desmodesmus subspicatus)	96h LC50: = 9640 mg/L (Pimephales promelas) 96h LC50: > 1400000 µg/L (Lepomis macrochirus)		
Acetone	-	96h LC50: = 8300 mg/L (Lepomis macrochirus) 96h LC50: 6210 - 8120 mg/L (Pimephales promelas) 96h LC50: 4.74 - 6.33 mL/L (Oncorhynchus mykiss)	EC50 = 14500 mg/L 15 min	48h EC50: 12600 - 12700 mg/L (Daphnia magna) 48h EC50: 10294 - 17704 mg/L (Daphnia magna)
Benzophenone-3	-	96h LC50: = 3.8 mg/L (Oryzias latipes)	-	-

**Persistence and Degradability** No information available.

#### Bioaccumulation

#### Component Information

Chemical name	Log Pow
Ethyl alcohol	-0.32
Glycerin	-1.76
T-butyl alcohol	0.35
Isopropylamine	0.26
Isopropyl alcohol	0.05
Acetone	-0.24

**Mobility** No information available.

**Other adverse effects** No information available.

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Waste from residues/unused products** Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

**US EPA Waste Number** D001

**California Waste Codes** 311

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical name	California Hazardous Waste
Ethyl alcohol 64-17-5	Toxic Ignitable
Isopropylamine 75-31-0	Toxic Ignitable
Isopropyl alcohol 67-63-0	Toxic Ignitable

Acetone 67-64-1	Ignitable
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### 14. TRANSPORT INFORMATION

**DOT**

<b>Proper Shipping Name</b>	CONSUMER COMMODITY
<b>Hazard Class</b>	ORM-D
<b>Description</b>	CONSUMER COMMODITY, ORM-D
<b>Emergency Response Guide Number</b>	127

**TDG**

<b>UN-No.</b>	UN1170
<b>Proper Shipping Name</b>	ETHANOL SOLUTION
<b>Hazard Class</b>	3
<b>Packing Group</b>	III
<b>Description</b>	UN1170, ETHANOL SOLUTION, 3, III

**MEX**

<b>UN-No.</b>	UN1170
<b>Proper Shipping Name</b>	ETHANOL SOLUTION
<b>Hazard Class</b>	3
<b>Packing Group</b>	III
<b>Description</b>	UN1170, ETHANOL SOLUTION, 3, III

**ICAO**

<b>UN-No.</b>	UN1170
<b>Proper Shipping Name</b>	ETHANOL SOLUTION
<b>Hazard Class</b>	3
<b>Packing Group</b>	III
<b>Description</b>	UN1170, ETHANOL SOLUTION, 3, III

**IATA**

<b>UN-No.</b>	UN1170
<b>Proper Shipping Name</b>	ETHANOL SOLUTION
<b>Hazard Class</b>	3
<b>Packing Group</b>	III
<b>ERG Code</b>	3L
<b>Description</b>	UN1170, ETHANOL SOLUTION, 3, III

**IMDG/IMO**

<b>UN-No.</b>	UN1170
<b>Proper Shipping Name</b>	ETHANOL SOLUTION
<b>Hazard Class</b>	3
<b>Packing Group</b>	III
<b>EmS-No.</b>	F-E, S-D
<b>Description</b>	UN1170, ETHANOL SOLUTION, 3, III, (22°C C.C.)

**RID**

<b>UN-No.</b>	UN1170
<b>Proper Shipping Name</b>	ETHANOL SOLUTION
<b>Hazard Class</b>	3
<b>Packing Group</b>	III
<b>Classification code</b>	F1
<b>Description</b>	UN1170, ETHANOL SOLUTION, 3, III
<b>ADR/RID-Labels</b>	3

**ADR**

UN-No.	UN1170
Proper Shipping Name	ETHANOL SOLUTION
Hazard Class	3
Packing Group	III
Classification code	F1
Tunnel restriction code	(D/E)
Description	UN1170, ETHANOL SOLUTION, 3, III, (D/E)

**ADN**

UN-No.	UN1170
Proper Shipping Name	ETHANOL SOLUTION
Hazard Class	3
Packing Group	III
Classification code	F1
Special Provisions	144, 601
Description	UN1170, ETHANOL SOLUTION, 3, III
Hazard Labels	3
Limited Quantity	5 L
Ventilation	VE01

<b>15. REGULATORY INFORMATION</b>
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**Safety, health and environmental regulations/legislation specific for the substance or mixture****International Regulations**

**The Montreal Protocol on Substances that Deplete the Ozone Layer** Not applicable

**The Stockholm Convention on Persistent Organic Pollutants** Not applicable

**The Rotterdam Convention** Not applicable

**International Inventories**

<b>TSCA</b>	Contact supplier for inventory compliance status.
<b>DSL/NDSL</b>	Contact supplier for inventory compliance status.
<b>EINECS/ELINCS</b>	Contact supplier for inventory compliance status.
<b>ENCS</b>	Contact supplier for inventory compliance status.
<b>KECL</b>	Contact supplier for inventory compliance status.
<b>PICCS</b>	Contact supplier for inventory compliance status.
<b>AICS</b>	Contact supplier for inventory compliance status.

**Legend**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	CAS No.	Weight-%	SARA 313 - Threshold Values %
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T-butyl alcohol - 75-65-0	75-65-0	0.072	1.0
Isopropyl alcohol - 67-63-0	67-63-0	0.000062	1.0

**SARA 311/312 Hazard Categories**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Acetone 67-64-1	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

**US State Regulations**

**California Proposition 65**

This product contains the following Proposition 65 chemicals. Ethyl alcohol is only a considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage.

Chemical name	California Proposition 65
Ethyl alcohol - 64-17-5	Carcinogen Developmental

**U.S. State Right-to-Know Regulations**

This product may contain substances regulated by state right-to-know regulations.

Chemical name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Ethyl alcohol 64-17-5	X	X	X		X
Glycerin 56-81-5	X	X	X	X	
T-butyl alcohol 75-65-0	X	X	X	X	
Diisopropylamine 108-18-9	X	X	X		
Isopropylamine 75-31-0	X	X	X		
Isopropyl alcohol 67-63-0	X	X	X	X	
Acetone 67-64-1	X	X	X	X	

**16. OTHER INFORMATION**

<b>NFPA</b>	Health hazards 1	Flammability 2	Instability 0	Physical and Chemical Properties - Personal Protection X
<b>HMIS</b>	Health hazards 1	Flammability 2	Physical hazards 0	



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**Disclaimer**

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**End of Safety Data Sheet**