

## SECTION 1: IDENTIFICATION

### Product Identifier

**Product Form:** Mixture

**Product Name:** Saccomanno

**Product Code:** SL25-1, SL25-16, SL25-2.5, SL26

### Intended Use of the Product

Fixative for cytology specimens.

### Name, Address, and Telephone of the Responsible Party

#### **Company**

StatLab Medical Products

2090 Commerce Drive

McKinney, TX 75069

800-442-3573

[www.statlab.com](http://www.statlab.com)

### Emergency Telephone Number

**Emergency Number** : CHEMTREC 800-424-9300 (USA & Canada)

CHEMTREC 703-527-3887 (International)

Non-transport 800-225-8867 (USA)

## SECTION 2: HAZARDS IDENTIFICATION

### Classification of the Substance or Mixture

#### **Classification (GHS-US)**

Flammable Liquid 3 H226

Full text of H-phrases: see section 16

### Label Elements

#### **GHS-US Labeling**

#### **Hazard Pictograms (GHS-US)**

:



GHS02

#### **Signal Word (GHS-US)**

: Danger

#### **Hazard Statements (GHS-US)**

: H226 - Flammable liquid and vapor.

#### **Precautionary Statements (GHS-US)**

: P210 - Keep away from sparks, open flames, heat, hot surfaces. - No smoking.

P233 - Keep container tightly closed.

P240 - Ground/bond container and receiving equipment.

P241 - Use explosion-proof lighting, ventilating, electrical equipment.

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge.

P280 - Wear protective clothing, protective gloves, eye protection.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower.

P370+P378 - In case of fire: Use water spray, fog, carbon dioxide, foam, dry chemical to extinguish.

P403+P235 - Store in a well-ventilated place. Keep cool.

P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

### Other Hazards

This material contains methanol, which, when ingested, may cause acidosis and ocular toxicity ranging from diminished visual capacity to complete blindness, and possible death.

**Unknown Acute Toxicity (GHS-US)** Not available

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### SECTION 3: COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

#### Mixture

Name	Product Identifier	% (w/w)	Classification (GHS-US)
Ethyl alcohol	(CAS No) 64-17-5	46	Flammable Liquid 2, H225 Eye Irritation 2A, H319
Isopropyl alcohol	(CAS No) 67-63-0	2	Flammable Liquid 2, H225 Eye Irritation 2A, H319 Specific Target Organ Toxicity Single Exposure 3, H336
Methyl alcohol	(CAS No) 67-56-1	2	Flammable Liquid 2, H225 Acute Toxicity 3 (Oral), H301 Acute Toxicity 3 (Dermal), H311 Acute Toxicity 3 (Inhalation: vapor), H331 Specific Target Organ Toxicity Single Exposure 1, H370

Full text of H-phrases: see section 16

### SECTION 4: FIRST AID MEASURES

#### Description of First Aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.

**Inhalation:** When symptoms occur: go into open air and ventilate suspected area. If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.

**Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

**Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Obtain medical attention if irritation persists.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

#### Most Important Symptoms and Effects Both Acute and Delayed

**General:** None expected under normal conditions of use.

**Inhalation:** None expected under normal conditions of use.

**Skin Contact:** None expected under normal conditions of use.

**Eye Contact:** None expected under normal conditions of use.

**Ingestion:** Ingestion is likely to be harmful or have adverse effects.

**Chronic Symptoms:** This material contains methanol, which, when ingested, may cause acidosis and ocular toxicity ranging from diminished visual capacity to complete blindness, and possible death.

#### Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention.

### SECTION 5: FIRE-FIGHTING MEASURES

#### Extinguishing Media

**Suitable Extinguishing Media:** Water spray, fog, carbon dioxide, foam, dry chemical.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

#### Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Flammable liquid and vapor.

**Explosion Hazard:** May form flammable/explosive vapor-air mixture.

**Reactivity:** Reacts with (strong) oxidizers: (increased) risk of fire.

#### Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>).

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### Reference to Other Sections

Refer to section 9 for flammability properties.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Use special care to avoid static electric charges. Keep away from open flames, hot surfaces and sources of ignition. Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist or spray.

#### For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

### Environmental Precautions

Prevent entry to sewers and public waters.

### Methods and Material for Containment and Cleaning Up

**For Containment:** Absorb and/or contain spill with inert material, then place in suitable container. Do not take up in combustible material such as saw dust or cellulosic material.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Use only non-sparking tools.

### Reference to Other Sections

See Section 8, Exposure Controls and Personal Protection. For further information refer to section 13.

## SECTION 7: HANDLING AND STORAGE

### Precautions for Safe Handling

**Additional Hazards When Processed:** Handle empty containers with care because residual vapors are flammable.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do not eat, drink or smoke when using this product.

### Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical, ventilating, and lighting equipment.

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep in fireproof place.

**Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers. Rubbers.

### Specific End Use(s)

Fixative for cytology specimens..

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government

Methyl alcohol (67-56-1)		
USA ACGIH	ACGIH TWA (ppm)	200 ppm
USA ACGIH	ACGIH STEL (ppm)	250 ppm
USA ACGIH	ACGIH chemical category	Skin - potential significant contribution to overall exposure by the cutaneous route
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	260 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	260 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (ppm)	200 ppm
USA NIOSH	NIOSH REL (STEL) (mg/m <sup>3</sup> )	325 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (STEL) (ppm)	250 ppm

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<b>USA IDLH</b>	US IDLH (ppm)	6000 ppm
<b>Alberta</b>	OEL STEL (mg/m <sup>3</sup> )	328 mg/m <sup>3</sup>
<b>Alberta</b>	OEL STEL (ppm)	250 ppm
<b>Alberta</b>	OEL TWA (mg/m <sup>3</sup> )	262 mg/m <sup>3</sup>
<b>Alberta</b>	OEL TWA (ppm)	200 ppm
<b>British Columbia</b>	OEL STEL (ppm)	250 ppm
<b>British Columbia</b>	OEL TWA (ppm)	200 ppm
<b>Manitoba</b>	OEL STEL (ppm)	250 ppm
<b>Manitoba</b>	OEL TWA (ppm)	200 ppm
<b>New Brunswick</b>	OEL STEL (mg/m <sup>3</sup> )	328 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL STEL (ppm)	250 ppm
<b>New Brunswick</b>	OEL TWA (mg/m <sup>3</sup> )	262 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL TWA (ppm)	200 ppm
<b>Newfoundland &amp; Labrador</b>	OEL STEL (ppm)	250 ppm
<b>Newfoundland &amp; Labrador</b>	OEL TWA (ppm)	200 ppm
<b>Nova Scotia</b>	OEL STEL (ppm)	250 ppm
<b>Nova Scotia</b>	OEL TWA (ppm)	200 ppm
<b>Nunavut</b>	OEL STEL (mg/m <sup>3</sup> )	328 mg/m <sup>3</sup>
<b>Nunavut</b>	OEL STEL (ppm)	250 ppm
<b>Nunavut</b>	OEL TWA (mg/m <sup>3</sup> )	262 mg/m <sup>3</sup>
<b>Nunavut</b>	OEL TWA (ppm)	200 ppm
<b>Northwest Territories</b>	OEL STEL (mg/m <sup>3</sup> )	328 mg/m <sup>3</sup>
<b>Northwest Territories</b>	OEL STEL (ppm)	250 ppm
<b>Northwest Territories</b>	OEL TWA (mg/m <sup>3</sup> )	262 mg/m <sup>3</sup>
<b>Northwest Territories</b>	OEL TWA (ppm)	200 ppm
<b>Ontario</b>	OEL STEL (ppm)	250 ppm
<b>Ontario</b>	OEL TWA (ppm)	200 ppm
<b>Prince Edward Island</b>	OEL STEL (ppm)	250 ppm
<b>Prince Edward Island</b>	OEL TWA (ppm)	200 ppm
<b>Québec</b>	VECD (mg/m <sup>3</sup> )	328 mg/m <sup>3</sup>
<b>Québec</b>	VECD (ppm)	250 ppm
<b>Québec</b>	VEMP (mg/m <sup>3</sup> )	262 mg/m <sup>3</sup>
<b>Québec</b>	VEMP (ppm)	200 ppm
<b>Saskatchewan</b>	OEL STEL (ppm)	250 ppm
<b>Saskatchewan</b>	OEL TWA (ppm)	200 ppm
<b>Yukon</b>	OEL STEL (mg/m <sup>3</sup> )	310 mg/m <sup>3</sup>
<b>Yukon</b>	OEL STEL (ppm)	250 ppm
<b>Yukon</b>	OEL TWA (mg/m <sup>3</sup> )	260 mg/m <sup>3</sup>
<b>Yukon</b>	OEL TWA (ppm)	200 ppm
<b>Ethyl alcohol (64-17-5)</b>		
<b>USA ACGIH</b>	ACGIH STEL (ppm)	1000 ppm
<b>USA ACGIH</b>	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
<b>USA OSHA</b>	OSHA PEL (TWA) (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL (TWA) (ppm)	1000 ppm
<b>USA NIOSH</b>	NIOSH REL (TWA) (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL (TWA) (ppm)	1000 ppm
<b>USA IDLH</b>	US IDLH (ppm)	3300 ppm (10% LEL)
<b>Alberta</b>	OEL TWA (mg/m <sup>3</sup> )	1880 mg/m <sup>3</sup>
<b>Alberta</b>	OEL TWA (ppm)	1000 ppm
<b>British Columbia</b>	OEL STEL (ppm)	1000 ppm

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<b>Manitoba</b>	OEL STEL (ppm)	1000 ppm
<b>New Brunswick</b>	OEL TWA (mg/m <sup>3</sup> )	1880 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL TWA (ppm)	1000 ppm
<b>Newfoundland &amp; Labrador</b>	OEL STEL (ppm)	1000 ppm
<b>Nova Scotia</b>	OEL STEL (ppm)	1000 ppm
<b>Nunavut</b>	OEL STEL (mg/m <sup>3</sup> )	2355 mg/m <sup>3</sup>
<b>Nunavut</b>	OEL STEL (ppm)	1250 ppm
<b>Nunavut</b>	OEL TWA (mg/m <sup>3</sup> )	1884 mg/m <sup>3</sup>
<b>Nunavut</b>	OEL TWA (ppm)	1000 ppm
<b>Northwest Territories</b>	OEL STEL (mg/m <sup>3</sup> )	2355 mg/m <sup>3</sup>
<b>Northwest Territories</b>	OEL STEL (ppm)	1250 ppm
<b>Northwest Territories</b>	OEL TWA (mg/m <sup>3</sup> )	1884 mg/m <sup>3</sup>
<b>Northwest Territories</b>	OEL TWA (ppm)	1000 ppm
<b>Ontario</b>	OEL STEL (ppm)	1000 ppm
<b>Prince Edward Island</b>	OEL STEL (ppm)	1000 ppm
<b>Québec</b>	VEMP (mg/m <sup>3</sup> )	1880 mg/m <sup>3</sup>
<b>Québec</b>	VEMP (ppm)	1000 ppm
<b>Saskatchewan</b>	OEL STEL (ppm)	1250 ppm
<b>Saskatchewan</b>	OEL TWA (ppm)	1000 ppm
<b>Yukon</b>	OEL STEL (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
<b>Yukon</b>	OEL STEL (ppm)	1000 ppm
<b>Yukon</b>	OEL TWA (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
<b>Yukon</b>	OEL TWA (ppm)	1000 ppm
<b>Isopropyl alcohol (67-63-0)</b>		
<b>USA ACGIH</b>	ACGIH TWA (ppm)	200 ppm
<b>USA ACGIH</b>	ACGIH STEL (ppm)	400 ppm
<b>USA ACGIH</b>	ACGIH chemical category	Not Classifiable as a Human Carcinogen
<b>USA OSHA</b>	OSHA PEL (TWA) (mg/m <sup>3</sup> )	980 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL (TWA) (ppm)	400 ppm
<b>USA NIOSH</b>	NIOSH REL (TWA) (mg/m <sup>3</sup> )	980 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL (TWA) (ppm)	400 ppm
<b>USA NIOSH</b>	NIOSH REL (STEL) (mg/m <sup>3</sup> )	1225 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL (STEL) (ppm)	500 ppm
<b>USA IDLH</b>	US IDLH (ppm)	2000 ppm (10% LEL)
<b>Alberta</b>	OEL STEL (mg/m <sup>3</sup> )	984 mg/m <sup>3</sup>
<b>Alberta</b>	OEL STEL (ppm)	400 ppm
<b>Alberta</b>	OEL TWA (mg/m <sup>3</sup> )	492 mg/m <sup>3</sup>
<b>Alberta</b>	OEL TWA (ppm)	200 ppm
<b>British Columbia</b>	OEL STEL (ppm)	400 ppm
<b>British Columbia</b>	OEL TWA (ppm)	200 ppm
<b>Manitoba</b>	OEL STEL (ppm)	400 ppm
<b>Manitoba</b>	OEL TWA (ppm)	200 ppm
<b>New Brunswick</b>	OEL STEL (mg/m <sup>3</sup> )	1230 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL STEL (ppm)	500 ppm
<b>New Brunswick</b>	OEL TWA (mg/m <sup>3</sup> )	983 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL TWA (ppm)	400 ppm
<b>Newfoundland &amp; Labrador</b>	OEL STEL (ppm)	400 ppm
<b>Newfoundland &amp; Labrador</b>	OEL TWA (ppm)	200 ppm
<b>Nova Scotia</b>	OEL STEL (ppm)	400 ppm
<b>Nova Scotia</b>	OEL TWA (ppm)	200 ppm
<b>Nunavut</b>	OEL STEL (mg/m <sup>3</sup> )	1228 mg/m <sup>3</sup>

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Nunavut	OEL STEL (ppm)	500 ppm
Nunavut	OEL TWA (mg/m <sup>3</sup> )	983 mg/m <sup>3</sup>
Nunavut	OEL TWA (ppm)	400 ppm
Northwest Territories	OEL STEL (mg/m <sup>3</sup> )	1228 mg/m <sup>3</sup>
Northwest Territories	OEL STEL (ppm)	500 ppm
Northwest Territories	OEL TWA (mg/m <sup>3</sup> )	983 mg/m <sup>3</sup>
Northwest Territories	OEL TWA (ppm)	400 ppm
Ontario	OEL STEL (ppm)	400 ppm
Ontario	OEL TWA (ppm)	200 ppm
Prince Edward Island	OEL STEL (ppm)	400 ppm
Prince Edward Island	OEL TWA (ppm)	200 ppm
Québec	VECD (mg/m <sup>3</sup> )	1230 mg/m <sup>3</sup>
Québec	VECD (ppm)	500 ppm
Québec	VEMP (mg/m <sup>3</sup> )	985 mg/m <sup>3</sup>
Québec	VEMP (ppm)	400 ppm
Saskatchewan	OEL STEL (ppm)	400 ppm
Saskatchewan	OEL TWA (ppm)	200 ppm
Yukon	OEL STEL (mg/m <sup>3</sup> )	1225 mg/m <sup>3</sup>
Yukon	OEL STEL (ppm)	500 ppm
Yukon	OEL TWA (mg/m <sup>3</sup> )	980 mg/m <sup>3</sup>
Yukon	OEL TWA (ppm)	400 ppm

### Exposure Controls

**Appropriate Engineering Controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits indicated above. All electrical equipment should comply with the National Electric Code. Gas detectors should be used when flammable gases/vapors may be released. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Protective clothing. Gloves. Protective goggles. Insufficient ventilation: wear respiratory protection.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear chemically resistant protective gloves.

**Eye Protection:** Chemical goggles or safety glasses.

**Skin and Body Protection:** Wear fire/flame resistant/retardant clothing.

**Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

**Other Information:** When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Dark Green
Odor	: Alcohol
Odor Threshold	: Not available
pH	: 5.5
Evaporation Rate	: Not available
Melting Point	: Not available
Freezing Point	: Not available
Boiling Point	: 82 °C (179.6 °F)
Flash Point	: estimated 24 °C 50% solution of Ethanol (75.2 °F)

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<b>Auto-ignition Temperature</b>	: Not available
<b>Decomposition Temperature</b>	: Not available
<b>Flammability (solid, gas)</b>	: Not available
<b>Lower Flammable Limit</b>	: Not available
<b>Upper Flammable Limit</b>	: Not available
<b>Vapor Pressure</b>	: Not available
<b>Relative Vapor Density at 20 °C</b>	: Not available
<b>Relative Density</b>	: Not available
<b>Specific Gravity</b>	: 0.93
<b>Solubility</b>	: Soluble in water
<b>Partition Coefficient: N-Octanol/Water</b>	: Not available
<b>Viscosity</b>	: Not available
<b>Explosion Data – Sensitivity to Mechanical Impact</b>	: Not expected to present an explosion hazard due to mechanical impact
<b>Explosion Data – Sensitivity to Static Discharge</b>	: Static discharge could act as an ignition source

### SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Reacts with (strong) oxidizers: (increased) risk of fire.

**Chemical Stability:** Flammable liquid and vapor.

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures. Sparks, heat, open flame and other sources of ignition.

**Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers. Rubbers.

**Hazardous Decomposition Products:** Carbon oxides (CO, CO<sub>2</sub>).

### SECTION 11: TOXICOLOGICAL INFORMATION

#### Information on Toxicological Effects - Product

**Acute Toxicity:** Not classified

**LD50 and LC50 Data:** Not available

**Skin Corrosion/Irritation:** Not classified

**pH:** 5.5

**Serious Eye Damage/Irritation:** Not classified

**pH:** 5.5

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Teratogenicity:** Not classified

**Carcinogenicity:** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** None expected under normal conditions of use

**Symptoms/Injuries After Skin Contact:** None expected under normal conditions of use

**Symptoms/Injuries After Eye Contact:** None expected under normal conditions of use

**Symptoms/Injuries After Ingestion:** Ingestion is likely to be harmful or have adverse effects

**Chronic Symptoms:** This material contains methanol, which, when ingested, may cause acidosis and ocular toxicity ranging from diminished visual capacity to complete blindness, and possible death

#### Information on Toxicological Effects - Ingredient(s)

**LD50 and LC50 Data:**

<b>Methyl alcohol (67-56-1)</b>	
<b>LC50 Inhalation Rat</b>	22500 ppm (Exposure time: 8 h)
<b>ATE US (oral)</b>	100.00 mg/kg body weight
<b>ATE US (dermal)</b>	300.00 mg/kg body weight
<b>ATE US (vapors)</b>	3.00 mg/l/4h

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Ethyl alcohol (64-17-5)	
LD50 Oral Rat	10470 mg/kg
LD50 Dermal Rat	20 ml/kg
LC50 Inhalation Rat	124.7 mg/l/4h

Isopropyl alcohol (67-63-0)	
LD50 Oral Rat	4710 mg/kg
LD50 Dermal Rabbit	4059 mg/kg
LC50 Inhalation Rat	72.6 mg/l/4h (Exposure time: 4 h)

### Carcinogenicity

Ethyl alcohol (64-17-5)	
IARC Group	1
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.

Isopropyl alcohol (67-63-0)	
IARC Group	3

## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity

Methyl alcohol (67-56-1)	
LC50 Fish 1	28200 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	1340 mg/l
LC 50 Fish 2	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])

Ethyl alcohol (64-17-5)	
EC50 Daphnia 1	9268 - 14221 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC 50 Fish 2	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
ErC50 (algae)	1000 mg/l

Isopropyl alcohol (67-63-0)	
LC50 Fish 1	9640 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	13299 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 Other Aquatic Organisms 1	1000 mg/l (Exposure time: 96 h - Species: Desmodesmus subspicatus)
LC 50 Fish 2	11130 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Other Aquatic Organisms 2	1000 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus)

### Persistence and Degradability

Saccomanno	
Persistence and Degradability	Not established.

Ethyl alcohol (64-17-5)	
Persistence and Degradability	Not established.

### Bioaccumulative Potential

Saccomanno	
Bioaccumulative Potential	Not established.

Methyl alcohol (67-56-1)	
BCF Fish 1	< 10
Log Pow	-0.77

Ethyl alcohol (64-17-5)	
Log Pow	-0.32
Bioaccumulative Potential	Not established.

Isopropyl alcohol (67-63-0)	
Log Pow	0.05 (at 25 °C)

**Mobility in Soil** Not available



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### Other Adverse Effects

**Other Information:** Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Sewage Disposal Recommendations:** Do not empty into drains; dispose of this material and its container in a safe way.

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

**Additional Information:** Handle empty containers with care because residual vapors are flammable.

## SECTION 14: TRANSPORT INFORMATION

### In Accordance With ICAO/IATA/DOT/TDG

**Note:** Depending on the manner in which this product is packaged, it may meet a Limited Quantity exemption. The following applies only if it does not meet that exemption.

#### 14.1. UN Number

UN-No.(DOT) : 1170  
DOT NA no. : UN1170

#### 14.2. UN Proper Shipping Name

Proper Shipping Name (DOT) : Ethanol solutions  
Transport hazard class(es) (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120  
Hazard Labels (DOT) : 3 - Flammable liquid



Packing Group (DOT) : III - Minor Danger  
DOT Special Provisions (49 CFR 172.102) : 24 - Alcoholic beverages containing more than 70 percent alcohol by volume must be transported as materials in Packing Group II. Alcoholic beverages containing more than 24 percent but not more than 70 percent alcohol by volume must be transported as materials in Packing Group III.  
B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.  
IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).  
T2 - 1.5 178.274(d)(2) Normal..... 178.275(d)(3)  
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling =  $97 / (1 + a (tr - tf))$  Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

DOT Packaging Exceptions (49 CFR 173.xxx) : 4b;150  
DOT Packaging Non Bulk (49 CFR 173.xxx) : 203  
DOT Packaging Bulk (49 CFR 173.xxx) : 242

#### 14.3. Additional Information

Emergency Response Guide (ERG) Number : 127

#### Transport by Sea

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

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### Air Transport

DOT Quantity Limitations Passenger : 60 L  
Aircraft/Rail (49 CFR 173.27)  
DOT Quantity Limitations Cargo Aircraft : 220 L  
Only (49 CFR 175.75)

## SECTION 15: REGULATORY INFORMATION

### US Federal Regulations

<b>Saccomanno</b>	
<b>SARA Section 311/312 Hazard Classes</b>	Fire hazard
<b>Methyl alcohol (67-56-1)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on United States SARA Section 313	
<b>SARA Section 311/312 Hazard Classes</b>	Delayed (chronic) health hazard Immediate (acute) health hazard Fire hazard
<b>SARA Section 313 - Emission Reporting</b>	1.0 %
<b>Ethyl alcohol (64-17-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Isopropyl alcohol (67-63-0)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on United States SARA Section 313	
<b>EPA TSCA Regulatory Flag</b>	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.
<b>SARA Section 313 - Emission Reporting</b>	1.0 % (only if manufactured by the strong acid process, no supplier notification)

### US State Regulations

<b>Methyl alcohol (67-56-1)</b>	
<b>U.S. - California - Proposition 65 - Developmental Toxicity</b>	WARNING: This product contains chemicals known to the State of California to cause birth defects.
<b>Ethyl alcohol (64-17-5)</b>	
<b>U.S. - California - Proposition 65 - Carcinogens List</b>	WARNING: This product contains chemicals known to the State of California to cause cancer.
<b>U.S. - California - Proposition 65 - Developmental Toxicity</b>	WARNING: This product contains chemicals known to the State of California to cause birth defects.
<b>Methyl alcohol (67-56-1)</b>	
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S. - Pennsylvania - RTK (Right to Know) List	
<b>Ethyl alcohol (64-17-5)</b>	
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List	
<b>Isopropyl alcohol (67-63-0)</b>	
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S. - Pennsylvania - RTK (Right to Know) List	


### Canadian Regulations

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WHMIS Classification	Class B Division 2 - Flammable Liquid
	

<b>Methyl alcohol (67-56-1)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
Listed on the Canadian IDL (Ingredient Disclosure List)	
IDL Concentration 1 %	
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

<b>Ethyl alcohol (64-17-5)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
Listed on the Canadian IDL (Ingredient Disclosure List)	
IDL Concentration 0.1 %	
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects

<b>Isopropyl alcohol (67-63-0)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
Listed on the Canadian IDL (Ingredient Disclosure List)	
IDL Concentration 1 %	
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision Date** : 06/25/2015  
**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

#### GHS Full Text Phrases:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation:vapor)	Acute toxicity (inhalation:vapor) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 2	Flammable liquids Category 2
STOT SE 1	Specific target organ toxicity (single exposure) Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor
H301	Toxic if swallowed
H311	Toxic in contact with skin
H319	Causes serious eye irritation
H331	Toxic if inhaled
H336	May cause drowsiness or dizziness
H370	Causes damage to organs
H401	Toxic to aquatic life

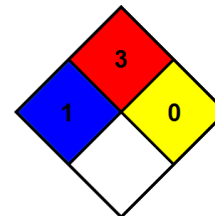
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- NFPA Health Hazard** : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
- NFPA Fire Hazard** : 3 - Liquids and solids that can be ignited under almost all ambient conditions.
- NFPA Reactivity** : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



### HMIS III Rating

- Health** : 1 Slight Hazard - Irritation or minor reversible injury possible
- Flammability** : 3 Serious Hazard
- Physical** : 0 Minimal Hazard

### Party Responsible for the Preparation of This Document

StatLab Medical Products  
Phone Number: 800-442-3573

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

NA GHS SDS