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Note: The CHEMTREC phone number is only for emergencies involving spills, leaks, fire, exposure or accident. Please direct all other inquiries to our customer service phone number.

Section I - Product Identification

A buffered solution of glutaraldehyde in alcohol and water.

Section II - Hazards Identification

Danger: Highly flammable liquid and vapor. Keep away from heat, sparks, open flames and hot surfaces. No smoking. Keep container tightly closed. Use only non-sparking tools. Take precautions against static discharge. Wear protective clothes and eye protection. In case of skin contact immediately remove all contaminated clothing. Rinse with water or shower. In case of fire, use fire extinguishers approved for alcohol fires. **Danger:** May cause allergy or breathing difficulties if inhaled.

Safety Ratings

Health: hazardous **Flammability:** Extremely flammable liquid and vapor **Reactivity:** None **Contact:** Slight
Recommended safety equipment: safety goggles, lab coat and proper gloves. Storage: Keep cool and away from sources of ignition in a well ventilated area.

NFPA Ratings

Health = 2 Flammability = 4 Reactivity = 0



Potential Health Effects

The toxicology of this compound have not been completely examined. It is presumed that the toxicity of this item is similar to other aliphatic alcohols.

Inhalation: Alcohols are absorbed through the mucous membranes and will produce irritation as well as the same effects as ingestion. Irritating to respiratory tract. May cause asthma like symptoms in sensitive individuals.

Ingestion: Inhalation will produce CNS disturbance, dizziness, photophobia, headache, stupor, coma and death.

Skin contact: Alcohols are absorbed through the skin. Repeated contact causes defatting of the skin with resultant irritation and flaking. May cause skin irritation or aggravation of existing dermatitis. May cause temporary discoloration of the skin.

Eye contact: Vapors may cause stinging sensation and tearing. Solution contact can cause corneal injury which can cause visual impairment if not dealt with immediately.

Chronic Exposure: May be a sensitizer in some individuals.

Aggravation of preexisting conditions: Impaired kidney and liver function may be aggravated by exposure to alcohols. Preexisting eye, skin, and respiratory conditions may also be aggravated. May aggravate preexisting asthma and other lung diseases.

Section III - Composition/Information on Components

Ingredients	CAS#	OSHA PeI	ACGIH TLV	Other Limits	%
Ethanol	64-17-5	1000 ppm (TWA)	1000 ppm (TWA)		50% w/w
Triethylene glycol	112-27-6	-----	-----		0.5% w/w
Glutaraldehyde	111-30-8	0.2 ppm	0.05 ppm		0.25%

Section IV - First Aid Measures

Inhalation: Remove from source of exposure and get medical attention for any breathing difficulty.

Ingestion: Do not induce vomiting. Drink large quantities of fluids and call a physician immediately. Get immediate medical attention even if symptoms improve.

Skin Contact: Remove contaminated clothing and wash affected area with soap and water. Get medical advice if *irritation develops*. Wash or discard contaminated clothing before reuse.

Eye Contact: Immediately flush thoroughly with running water for at least 15 minutes. Get immediate medical advice.

Section V - Fire Fighting Measures

Flash point: 17 °C (63 °F) TCC

Flammable Limits (for ethanol): LEL 3% UEL 19%

Explosion: Not Normally an explosion hazards.

Fire Extinguishing Media: Alcohol type foam, carbon dioxide or dry chemical. Water is ineffective against alcohol fires but may be used to cool adjacent containers.

Special information: Pyrolysis will release toxic oxides such as carbon monoxide.

Section VI - Accidental Release Measures

Remove all sources of ignition, absorb with a suitable absorbent (such as paper towels) and dispose.

Section VII - Handling and Storage

Store in a cool, well ventilated place. Store in a closed container, away from open flames or other sources of ignition.

Section VIII - Exposure Control/Personal Protection

Airborne Exposure Limits: See section III.

Ventilation System: Usually not required. When required, Refer to the ACGIH document, "Industrial Ventilation, a Manual of Recommended Practices" for details about ventilation.

Personal Respirator: Usually not required. In case of emergency, or when exposure levels are unknown, use a positive pressure, full face piece, air supplied respirator.

Skin protection: Protective gloves are recommended as part of good laboratory practice.

Eye Protection: Laboratory safety goggles or similar products are recommended as part of good laboratory practice.

Section IX - Physical and Chemical Properties

Boiling Point: 79 - 80 °C

Vapor pressure (mm Hg): 52 @ 20 °C

Vapor Density (air = 1): 2

Appearance and Odor: A clear colorless liquid with the characteristic odor of alcohol.

Density: 0.90 g/ml

Evaporation Rate (Ethanol = 1): 1

Solubility: Infinitely miscible with water

Section X - Stability and Reactivity

Stability: Stable.

Hazardous Decomposition Products: Nothing unusual.

Hazardous polymerization: Will not occur.

Incompatibilities: Oxidizers.

Conditions to avoid: heat, flame and sources of ignition.

Section XI - Toxicological Information

Chronic consumption of ethanol is believed to be linked to liver disease, cancer and birth defects.

Cancer lists?

<u>Ingredient</u>	<u>Known Carcinogenicity?</u>	<u>NTP?</u>	<u>Anticipated?</u>	<u>IARC Category</u>
Ethanol	no	no	no	none
Glutaraldehyde	no	no	no	none
Triethylene glycol	no	no	no	none

Section XII - Ecological Information

Environmental Fate: Biodegradable.

Environmental Toxicity: Glutaraldehyde may be toxic to fish.

Ethanol evaporates quickly and is not expected to bioaccumulate. The material is removed from the air by dry and liquid adsorption. The half-life for ethanol in the atmosphere is one to ten days.

Section XIII - Disposal Considerations

Incineration at a licensed chemical disposal facility is the preferred disposal method. Local governments often restrict the amounts of alcohol and other flammable liquids that may be flushed down the drain. The usual rule is that the effluent exiting the building can't be flammable. Dispose of contents and container in accord with all applicable regulations.

Section XIV - Transportation information

DOT Shipping name: Ethyl alcohol solution Hazard Class: 3 Packaging Group II

DOT Hazard Label: Flammable liquid DOT Identification Number: UN1170

Bottles smaller than 32 Fl. Oz. are eligible to be shipped under ORM-D or limited quantity exemptions [49 CFR section 173.150(b)(2) and 173.150(C)].

Section XV - Regulatory Information

Chemical Inventory Status

<u>Ingredient</u>	<u>TSCA</u>	<u>EC</u>
Ethanol	Yes	Yes
Glutaraldehyde	Yes	Yes
Triethylene glycol	Yes	Yes

Federal, State and International Regulations

<u>Ingredient</u>	<u>SARA 302</u>		<u>SARA 313</u>		<u>RCRA</u>	<u>TSCA</u>	<u>Ca. Prop 65</u>
	<u>RQ</u>	<u>TPQ</u>	<u>List</u>	<u>Category</u>	<u>261.33</u>	<u>8(D)</u>	
Ethanol	No	No	No	No	No	No	No
Glutaraldehyde	No	No	No	No	No	No	No
Triethylene glycol	No	No	No	No	No	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: Yes

SARA 311/312: Acute: Yes, Chronic: Yes, Flammable: Yes

Section XVI - Other Information

This information is believed to be correct but is not warranted as such, nor does it purport to be all inclusive.

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