Medical Chemical Corp.
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Torrance, CA 90501
Customer Service: Phone (310)787-6800
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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

An aqueous solution of reagent alcohol, formaldehyde, acetone, glycerin and thimerosal.

Section II - Hazards Identification

Warning: Flammable liquid and vapor. Keep away from heat, sparks, open flames and hot surfaces. 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.

Safety Ratings

Health: Hazardous *Flammability:* Highly flammable liquid and vapor *Reactivity*: Slight *Contact:* Slight
Recommended safety equipment: safety goggles, lab coat and proper gloves
Storage: Keep cool, away from sources of ignition in a well ventilated area.
NFPA Ratings
Health = 2 Flammability = 3 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.

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.

Eye contact: May be irritating

Chronic Exposure: Unknown

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. Methanol has shown genetic toxicity in some animals.

Section III - Composition/Information on Components

Ingredients	*CAS#*	*OSHA Pel*	*ACGIH TLV*	*Other Limits*	*%*
Ethanol	64-17-5	1000 ppm TWA	1000 ppm TWA		19% v/v
Acetone	67-64-1	750 ppm	1000 ppm		3.3% w/v
Formaldehyde	50-00-0	0.75 ppm TWA	1 ppm STEL		2% w/v
Glycerin	56-81-5	10 mg/m3 TWA	10 mg/m3 TLV (mist)		1% v/v
Isopropanol	67-63-0	400 ppm TWA	500 ppm		1% v/v
Methanol	67-56-1	200 ppm TWA	200 ppm STEL		1% v/v
Thimerosal	54-64-8	0.01 mg(Hg)/m3	0.01 mg(Hg)/m3 TWA		0.4% w/v

Section IV - First Aid Measures

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

Ingestion: Do not induce vomiting if patient is unconscious or extremely drowsy. Otherwise, administer 2 glasses of water and induce vomiting. Get immediate medical attention even if symptoms improve.

Skin Contact: In case of skin contact, remove contaminated clothing and flush with water. Wash affected area with soap and water. Get medical advice if irritation develops.

Eye Contact: In case of eye contact, flush with water for at least 15 minutes and get medical attention.

Section V - Fire Fighting Measures

Flash point: 37 ^{o}C (99 ^{o}F) TCC

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

Fire: Water is ineffective against alcohol fires but may be used to cool adjacent containers.

Fire Extinguishing Media: Alcohol foam, carbon dioxide or dry chemical.

Special information: Pyrolysis will release toxic 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 not required but recommended as part of good laboratory practice.

Eye Protection: Laboratory safety goggles or similar products are not required but recommended as part of good laboratory practice.

Section IX - Physical and Chemical Properties

Boiling Point: 90 ^{o}C

Vapor pressure (mm Hg): 40 @ 19 ^{o}C

Vapor Density (air = 1): 0.6

Density: 0.964 g/ml

Evaporation Rate (Water = 1): 1

Solubility: Infinitely miscible with water

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

Section X - Stability and Reactivity

Stability: Freezes at low temperature.

Hazardous Decomposition Products: Nothing unusual.

Hazardous polymerization: Will not occur.

Incompatibilities: Oxidixers.

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

Ingredient	Known Carcinogenicity?	NTP?	Anticipated?	IARC Category
Ethanol	no	no	no	none
Acetone	no	no	no	none
Formaldehyde	yes	no	yes	2A
Glycerin	no	no	no	none
Methanol	no	no	no	none
Isopropanol	no	no	no	3

Section XII - Ecological Information

Environmental Fate: Unknown.

Environmental Toxicity: Mercury is an environmental toxin.

Alcohols and acetone evaporate quickly and are not expected to bioaccumulate. They are removed from the air by dry and liquid adsorption. Mercury does bioaccumulate.

Section XIII - Disposal Considerations

The preferred disposal method is incineration. Many localities restrict the amount of alcohol that may be flushed down the drain and most forbid the disposal of mercury compounds into the sewer system. 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

Ingredient	TSCA	EC
Ethanol	Yes	Yes
Acetone	Yes	Yes
formaldehyde	Yes	Yes
Glycerin	Yes	Yes
Methanol	Yes	Yes
Isopropanol	Yes	Yes
Thimerosal	Yes	Yes

Federal, State and International Regulations

	SARA 302		SARA 313—		RCRA	TSCA
Ingredient	RQ	TPQ	List	Category	261.33	8(D)
Ethanol	No	No	No	No	No	No
Acetone	No	No	Yes	No	U002	No
Formaldehyde	100	500	Yes	No	U122	No
Glycerin	No	No	No	No	No	No
methanol	No	No	Yes	No	U154	No
Isopropanol	No	No	Yes	No	No	No
Thimerosal	Yes	Yes	Yes	Yes	?	?

Ingredient	Chemical Weapons Convention	TSCA 12(b)	CDTA
Ethanol	No	No	No
Acetone	No	Yes	Yes
formaldehyde	No	No	No
Glycerin	No	No	No
methanol	No	No	Yes
Isopropanol	No	No	No
Thimerosal	No	Yes	Yes

SARA 311/312

Ingredient	Acute?	Chronic?
Ethanol	Yes	Yes
Acetone	Yes	Yes
Formaldehyde	Yes	Yes
Glycerin	No	No
Methanol	Yes	Yes
Isopropanol	Yes	Yes
Thimerosal	Yes	Yes

Section XVI - Other Information

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