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## Section I - Product Identification

*Product:* 70% v/v ethyl alcohol hand sanitizer with myrystal esters, aloe vera and parabens.

*Intended Uses:* A hand sanitizer intended to be used to kill pathogenic organisms.

*Uses advised against:* Not for use on environmental surfaces.

### Manufacturer Identification

Medical Chemical Corp.  
19430 Van Ness Ave.  
Torrance, CA 90501

Customer Service: Phone (310)787-6800  
Email: Christinaavena@med-chem.com  
FAX (310)787-4464

### Emergency Telephone Number

CHEMTREC Emergency Response Telephone Number: (800)424-9300. 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 II - Hazard Identification

This item is considered hazardous by 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

**Flammable liquid:** Category 2 (H225). Highly flammable liquid and vapor.

**Eye damage/eye irritation:** Category 2 (H319). Causes serious eye irritation.

**Acute toxicity (Oral):** Category 4 (H302). Harmful if swallowed.

**Acute toxicity (Inhalation):** Category 4 (H331). Harmful if inhaled.

**Specific organ toxicity:** Category 3 (H371). May cause damage to organs

**Signal word:** Danger

### Hazard statements

According to the harmonized classification and labeling required by OSHA and the EU, this substance is a highly flammable liquid and vapor, causes serious eye irritation and may cause drowsiness or dizziness. In case of fire use fire extinguishers approved for alcohol fires.

### Precautionary statements

- P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting equipment.
- P242 Use only non-sparking tools.
- P243 Take precautions against static discharge.
- P280 Wear protective clothes and eye protection.

### Safety Ratings

*Health:* Hazardous *Flammability:* Highly Flammable *Reactivity:* Stable *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 = 1 Flammability = 4 Reactivity = 0

### Potential Health Effects

The toxicology of this compound has not been completely examined. It is presumed that the toxicity of this item is similar to that of other aliphatic alcohols. The ethanol is denatured with *t*-butyl alcohol and denatonium benzoate to prevent consumption.

*Inhalation:* Alcohols are absorbed through the mucous membranes and will produce irritation as well as the same effects as ingestion.

*Ingestion:* Ingestion of small amounts will cause gastrointestinal distress and vomiting. Ingestion of

larger amounts will produce CNS disturbance, dizziness, photophobia, headache, stupor, coma and death.

*Skin contact:* Alcohols are absorbed through the skin. Repeated contact may cause irritation and flaking of the skin.

*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.

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### Section III - Composition/Information on Components

Ingredients	CAS #	EC/List no	%
Ethanol	64-17-5	64-17-5	68.5 - 71.5% v/v
Myristal Esters	No listing	No listing	0.3 - 0.7% w/v
Aloe Vera Extract	85507-69-3	287-390-8	0.3 - 0.7% w/v
Carbomer	9003-01-4	618-347-7	>0.2% w/v

Also contains a mixture of parabens at a concentration less than 0.1%.

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### Section IV - First Aid Measures

*General Advice:* Contact a doctor if symptoms persist

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

*Ingestion:* Do not induce vomiting. Aspiration of acetone into the lungs may produce death. Get immediate medical attention even if symptoms improve.

*Skin Contact:* In case of skin contact get medical advice if irritation develops.

*Eye Contact:* In case of eye contact, flush with water for a few minutes and get medical attention.

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### Section V - Fire Fighting Measures

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

*Flash point:* 21 °C (70 °F) TCC

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

*Specific Hazards:* Risk of vapor traveling to source of ignition and flashing back. Risk of exploding containers when heated. Vapor in air may form explosion risk.

*Special information:* Pyrolysis will release toxic carbon monoxide, formaldehyde and methanol.

*Special protective gear and precautions:* Self contained breathing apparatus and protective gear recommended.

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### Section VI - Accidental Release Measures

Use personal protective gear, remove all sources of ignition, absorb with a suitable absorbent and dispose. Take precautions against static ignition. Should not be released into the environment.

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### Section VII - Handling and Storage

P403+P233+P102; Store in a well-ventilated place. Keep container tightly closed. Store away from open flames or other sources of ignition. Keep out of reach of children.

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### Section VIII - Exposure Control/Personal Protection

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethanol	1000 ppm	1000 ppm	3300 ppm
Myristal Esters	Not Regulated	Not Regulated	Not Regulated
Aloe Vera	Not Regulated	Not Regulated	Not Regulated

Carbomer	Not Regulated	Not Regulated	Not Regulated
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### Legend

**ACGIH:** American Conference of Governmental Industrial Hygienists.

**OSHA:** Occupational Safety and Health Administration.

**NIOSH:** National Institute for Occupational Safety and Health.

**IDLH:** Immediately dangerous to life or health.

**Ventilation System:** Local exhaust such as explosion proof chemical fume hoods are not usually 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:** 60-63 °C (140 °F - 145 °F)

**Vapor pressure (mm Hg):** 52 @ 20 °C

**Vapor Density (air = 1):** 2

**Appearance and Odor:** A colorless liquid with a sweet odor. Has the characteristic odor of ethyl alcohol.

**Density:** 0.881 g/ml @ 22.5 °C

**Evaporation Rate (Ethanol = 1):** 1

**Solubility:** Infinitely miscible with water

### Section X - Stability and Reactivity

**Stability:** Stable under normal conditions.

**Hazardous Decomposition Products:** Nothing unusual.

**Hazardous polymerization:** Will not occur.

**Incompatibilities:** Oxidizers, peroxides etc.

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

### Section XI - Toxicological Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethanol	10470 mg/kg (Rat)	20 ml/kg (Rat)	125 mg/l/4h (Rat)
Myristal Ester	No Data Available	No Data Available	No Data Available
Aloe Vera	No Data Available	No Data Available	No Data Available
Carbomer	2500 mg/kg (Rat)	No Data Available	Not Applicable

### Cancer lists

<i>Ingredient</i>	<i>Known Carcinogenicity?</i>	<i>NTP?</i>	<i>Anticipated?</i>	<i>IARC Category</i>
Ethanol	No	No	No	None
Myristal Esters	No	No	No	None
Aloe Vera	No	No	No	None
Carbomer	No	No	No	None

### Section XII - Ecological Information

Alcohols evaporate quickly and are not expected to bioaccumulate. The half-life for ethanol in the atmosphere is one to ten days.

**Environmental Fate:** Biodegradable

**Soil Mobility:** Unknown

**Environmental Toxicity:** Low.

Component	Freshwater Fish	Water Flea	Freshwater algae
Ethanol	LC50 = 100 mg/l 96 h	EC50 = 100 mg/L 48 h	EC50 = 100 mg/l 72 h
Myristal Esters	No Data Available	No Data Available	No Data Available
Aloe Vera	No Data Available	No Data Available	No Data Available
Carbomer	No Data Available	No Data Available	No Data Available

### Section XIII - Disposal Considerations

Disposal 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 must not be flammable. Dispose of contents and container in accord with all applicable regulations.

### Section XIV - Transportation Information

DOT Shipping name: Ethanol 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 limited quantity exemptions [49 CFR section 173.150(b)(2), 173.150(C) and IATA Y341].

### Section XV - Regulatory Information

#### Chemical Inventory Status

<u>Ingredient</u>	<u>TSCA</u>	<u>EC</u>
Ethanol	Yes	Yes
Myristal Ester	Yes	Yes
Aloe Vera	Yes	Yes
Carbomer	Yes	Yes

#### Federal and State Regulations

<u>Ingredient</u>	<u>SARA 302</u>		<u>SARA 313</u>		<u>RCRA</u> <u>261.33</u>	<u>TSCA</u> <u>8(D)</u>	<u>Ca. Prop 65</u>
	<u>RQ</u>	<u>TPQ</u>	<u>List</u>	<u>Category</u>			
Ethanol	No	No	No	No	No	No	No
Myristal Ester	No	No	No	No	No	No	No
Aloe Vera	No	No	No	No	No	No	No
Carbomer	No	No	No	No	No	No	No

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

SARA 311/312: Acute: Yes, Chronic: No, Fire: Yes, Pressure: No, Reactivity: No

### Section XVI - Other Information

This information is believed to be correct at the time of publication but is not guaranteed as such, nor does it purport to be all inclusive. Medical Chemical Corp. assumes no liability for the accuracy or completeness of the information. The user assumes all responsibility for compliance with federal, state and local laws.

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