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Section I - Product Identification

Product: Tincture of benzoin is solution of benzoin, storax, tolu balsam and aloe in ethanol.

Intended Uses: This product is a compendial product used for protecting skin lesions from infection and irritation to aid in healing.

Uses advised against: Intended to be used on the skin and not advised for use on environmental surfaces.

Manufacturer Identification

Medical Chemical Corp.
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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 (H226). Highly flammable liquid and vapor.

Eye damage/eye Irritation: Category 2b (H320). Causes eye irritation.

Acute toxicity (Oral): Category 5 (H303). May be harmful if swallowed.

Acute toxicity (Inhalation): Category 5 (H332). May be harmful if inhaled.

Acute toxicity (Dermal): Category 3 (H316). Causes mild skin irritation.

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 has a highly flammable vapor. It causes 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.
- P270 Do not eat, drink or smoke when using this product.
- P273 Avoid release to the environment.
- P281 Use personal protective equipment as required.

Safety Ratings

Health: Slightly hazardous *Flammability:* Highly flammable *Reactivity:* Stable *Contact:* Slight
Recommended safety equipment: Use as required.

NFPA Ratings

Health = 1 Flammability = 4 Reactivity = 0

Potential Health Effects

Inhalation or contact with ethanol may irritate or burn skin and eyes. Fire may produce irritating, corrosive and/or toxic gases. Vapors may cause dizziness or suffocation. High concentrations of ethanol can produce central nervous system depression.

Inhalation: Alcohol is absorbed through the mucous membranes and will produce irritation as well as the same effects as ingestion.

Ingestion: While the toxicity of this item is low, Ingestion of large amounts 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.

Section III - Composition/Information on Components

Ingredients	CAS#	EC/List Number	%
Ethanol	64-17-5	200-578-6	74 - 80% v/v
Benzoin	119-53-9	204-331-3	10% w/v
Storax Balsam	8046-19-3	232-458-4	8% w/v
Tolu Balsam	9000-64-0	232-550-4	4% w/v
Aloe	67479-27-0	266-698-6	2% w/v

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 alcohol into the lungs may produce death. Get immediate medical attention even if symptoms improve.

Skin Contact: Get medical advice if irritation develops.

Eye Contact: In case of eye contact, flush with water and get medical attention if needed.

Section V - Fire Fighting Measures

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

Flash point: 20 °C (68 °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.

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.

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.

Section VIII - Exposure Control/Personal Protection

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethanol	1000 ppm	1000 ppm	3300 ppm
Benzoin	Not Regulated	Not Regulated	Not Regulated
Storax Balsam	Not Regulated	Not Regulated	Not Regulated
Tolu Balsam	Not Regulated	Not Regulated	Not Regulated

Aloe	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 recommended. 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: Not usually required.

Eye Protection: Not usually required.

Section IX - Physical and Chemical Properties

Boiling Point: 173 °F (78 °C)

Density: 0.94 g/ml @ 22.5 °C

Vapor pressure (mm Hg): No Data

Evaporation Rate (ethanol = 1): 1

Vapor Density (air = 1): No Data

Solubility: Slight

Appearance and Odor: A clear, brown liquid with the odor of incense.

Section X - Stability and Reactivity

Stability: Stable under normal conditions.

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

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethanol	1047 mg/kg (Rat)	20 ml/kg (Rat)	125 mg/l/4h (Rat)
Benzoin	No Data	No Data	No Data
Storax Balsam	No Data	No Data	No Data
Tolu Balsam	No Data	No Data	No Data
Aloe	No Data	No Data	No Data

Cancer lists

Ingredient	Known Carcinogenicity?	NTP?	Anticipated?	IARC Category
Ethanol	No	No	No	None
Benzoin	No	No	No	None
Storax Balsam	No	No	No	None
Tolu Balsam	No	No	No	None
Aloe	No	No	No	None

Section XII - Ecological Information

Aliphatic alcohols evaporate quickly and are 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.

Environmental Fate: Biodegradable

Soil Mobility: Unknown

Environmental Toxicity: Category 4 (H413). May cause long lasting harmful effects to aquatic life.

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
Benzoin	No Data	No Data	No Data
Storax Balsam	No Data	No Data	No Data
Tolu Balsam	No Data	No Data	No Data
Aloe	No Data	No Data	No Data

Section XIII - Disposal Considerations

Local governments often restrict the amounts of alcohol and other flammable liquids that may be flushed down the drain. The usual rule is that effluent exiting the building must not be flammable but specific chemicals may also be specifically forbidden. 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

Ingredient	TSCA	EC
Ethanol	Yes	Yes
Benzoin	Yes	Yes
Storax Balsam	Yes	Yes
Tolu Balsam	Yes	Yes
Aloe	Yes	Yes

Federal and State Regulations

Ingredient	SARA 302		SARA 313		RCRA	TSCA	Ca. Prop 65
	RQ	TPQ	List	Category	261.33	8(D)	
Ethanol	No	No	No	No	No	No	No
benzoin	No	No	No	No	No	No	No
Storax Balsam	No	No	No	No	No	No	No
Tolu Balsam	No	No	No	No	No	No	No
Aloe	No	No	No	No	No	No	No

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

SARA 311/312: Acute: No 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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