

Safety Data Sheet

Issue Date: 07-Mar-2014 Revision Date: 18-Jan-2018 Version 1

1. IDENTIFICATION

Product Identifier

Product Name Collodion Remover

Other means of identification

SDS # MD0013

Recommended use of the chemical and restrictions on use
Recommended Use

Medical adhesive remover.

Details of the supplier of the safety data sheet

Supplier Address

Mavidon Medical Products 6625 White Dr Riviera Beach, FL 33407 USA

Emergency Telephone Number

Company Phone Number 561-585-2227

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Colorless liquid Physical State Liquid Odor Mild

Classification

Flammable Liquids Category 4

Signal Word

Warning

Hazard Statements

Combustible liquid

Precautionary Statements - Prevention

Keep away from heat/sparks/open flames/hot surfaces. — No smoking Wear protective gloves/protective clothing/eye protection/face protection

<u>Precautionary Statements - Response</u>

IN CASE OF FIRE: Use CO2, dry chemical, or foam for extinction

<u>Precautionary Statements - Storage</u>

Store in a well-ventilated place. Keep cool.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other Hazards

Toxic to aquatic life with long lasting effects

Unknown Acute Toxicity

94% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Ethyl Alcohol	64-17-5	1-10

^{**}If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as atrade secret.**

4. FIRST-AID MEASURES

First Aid Measures

Eye Contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

Skin Contact Wash with soap and water. If skin irritation occurs: Get medical advice/attention.

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Artificial

respiration and/or oxygen may be necessary. Get medical attention immediately.

Ingestion If conscious, give 1 glass of water to dilute. Do not induce vomiting. Never give anything by

mouth to an unconscious person.

Most important symptoms and effects

Symptoms Direct contact with eyes will cause irritation. Direct contact with skin can cause irritation or

redness.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically. There is no specific antidote.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry chemical. Carbon dioxide (CO2).

Small Fire Dry chemical or CO2. Water spray.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Combustible material.

Hazardous Combustion Products Carbon oxides.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Wear protective clothing as described in Section 8 of this safety data sheet. Evacuate

personnel to safe areas. ELIMINATE all ignition sources (no smoking, flares, sparks or

flames in immediate area). Ventilate affected area.

Environmental Precautions Prevent from entering into soil, ditches, sewers, waterways and/orgroundwater. See

Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up Flush spill area with water, collect rinse water in containers for proper disposal. Small spills

may be permitted to be flushed to a sanitary sewer. Check with local authorities before

proceeding.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Use personal

protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Keep away

from heat/sparks/open flames/hot surfaces. — No smoking.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed and store in a cool, dry and well-ventilated place. Store in

original labeled container.

Incompatible Materials Strong acids. Oxidizing materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethyl Alcohol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³	IDLH: 3300 ppm TWA: 1000 ppm
		(vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m ³	TWA: 1900 mg/m ³

Appropriate engineering controls

Engineering Controls Apply technical measures to comply with the occupational exposure limits. Eyewash

stations. Showers.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Avoid contact with eyes.

Skin and Body Protection No protective equipment is needed under normal use conditions.

Respiratory Protection Ensure adequate ventilation, especially in confined areas. For emergencies, a

NIOSH/MSHA approved positive pressure breathing apparatus should be readily available.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

CC (closed cup)

(Air=1)

Information on basic physical and chemical properties

Physical State Liquid

Appearance Colorless liquid Odor Mild

Color Colorless Odor Threshold Not determined

<u>Property</u> <u>Values</u> Not <u>Remarks • Method</u>

pH determined Not
Melting Point/Freezing Point determined

Boiling Point/Boiling Range 208.9 °C / 408 °F Flash Point 80 °C / 176 °F

Evaporation Rate < 1

Flammability (Solid, Gas) Liquid-not applicable

Upper Flammability Limits 2.35%
Lower Flammability Limit 1.21%
Vapor Pressure 0.53 ATM

Vapor Density 6.6

Specific Gravity .0972 @ 20°C (68°F) (1=Water)

Water Solubility 20%
Solubility in other solvents Not determined
Partition Coefficient Not determined
Auto-ignition Temperature Not determined
Not determined
Not determined

Kinematic Viscosity

Dynamic Viscosity

Explosive Properties

Not determined

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

Reactive with oxidizing materials and strongacids.

Hazardous Polymerization No information available.

Conditions to Avoid

Keep out of reach of children.

Incompatible Materials

Strong acids. Oxidizing materials.

Hazardous Decomposition Products

Carbon monoxide. Carbon dioxide (CO2).

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11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact Avoid contact with eyes.

Skin Contact Avoid long term skin contact.

Inhalation Avoid breathing vapors or mists.

Ingestion Do not taste or swallow.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethyl Alcohol	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat)4 h
64-17-5			
Water	> 90 mL/kg (Rat)	-	-
7732-18-5			
Polyethylene glycol 25322-68-3	= 28 g/kg (Rat)	> 20 g/kg (Rabbit)	-

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

> However, the product as a whole has not been tested. Ethanol has been shown to be carcinogenic in long-term studies only when consumed as an alcoholic beverage.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethyl Alcohol	A3	Group 1	Known	X
64-17-5				

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Numerical measures of toxicity

Not determined

Unknown Acute Toxicity 94% of the mixture consists of ingredient(s) of unknown toxicity.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Ethyl Alcohol		12.0 - 16.0: 96 h	EC50 = 34634 mg/L 30 min	9268 - 14221: 48 h Daphnia
64-17-5		Oncorhynchus mykiss mL/L	EC50 = 35470 mg/L 5 min	magna mg/L LC50 10800: 24
		LC50 static 100: 96 h	_	h Daphnia magna mg/L
		Pimephales promelas mg/L		EC50 2: 48 h Daphnia
		LC50 static 13400 - 15100:		magna mg/L EC50 Static
		96 h Pimephales promelas		
		mg/L LC50 flow-through		
Polyethylene glycol		5000: 24 h Carassius		
25322-68-3		auratus mg/L LC50		

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Chemical Name	Partition Coefficient
Ethyl Alcohol	-0.32
64-17-5	

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of WastesDisposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status	
Ethyl Alcohol	Toxic	
64-17-5	Ignitable	

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances. According to 49 CFR §173.150(f)(1), this material should be reclassified as "NA1993, Combustible Liquid, N.O.S." if it is shipped in bulk.

DOT Not regulated

IATA Not regulated

IMDG

Marine Pollutant This material may meet the definition of a marine pollutant

15. REGULATORY INFORMATION

International Inventories

Not determined

US Federal Regulations

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

US State Regulations

California Proposition 65

Ethyl alcohol is only considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage.

Chemical Name	California Proposition 65	
Ethyl Alcohol - 64-17-5	Carcinogen	
	Developmental	

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ethyl Alcohol	X	X	X
64-17-5			

16. OTHER INFORMATION

NFPA Health Hazards Flammability Instability Special Hazards Not determined Not determined Not determined Not determined **HMIS Health Hazards Flammability Physical Hazards Personal Protection** Not determined Not determined Not determined Not determined

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Revision Note: Formula Confirmation

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet