

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Collodion Remover

GENERAL USE: Collodion Remover

PRODUCT DESCRIPTION: Colorless liquid, combustible, sweet ether odor



MANUFACTURER'S NAME

Mavidon Medical Products

DATE PREPARED: February 25, 2001

SUPERSEDES: New

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ADDRESS (NUMBER, STREET, P.O. BOX)

2105 7th Avenue North

TELEPHONE NUMBER FOR INFORMATION

(561) 585-2227

(CITY, STATE AND ZIP CODE)

Lake Worth, FL 33461-

COUNTRY

USA

EMERGENCY TELEPHONE NUMBER

Infotrac (800) 535-5053 Outside USA (352) 323-3500

DISTRIBUTOR'S NAME

Same

ADDRESS (NUMBER, STREET, P.O. BOX)

TELEPHONE NUMBER FOR INFORMATION

(CITY, STATE AND ZIP CODE)

COUNTRY

EMERGENCY TELEPHONE NUMBER

## SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	CAS #	%	OSHA PEL		ACGIH TWA		SARA TITLE III	RQ LBS
			PPM	MG/M <sup>3</sup>	PPM	MG/M <sup>3</sup>		
Proprietary Ingredient (a)	Not specified	75 - 95	not established				No	
Ethanol	64-17-5	1 - 5	1000	1900	1000			

(a) The specific product is not identified due to "Trade Secret" status. In emergency situations further information may be obtained by the on - duty physician calling the emergency information number listed above. Reference 29 CFR 1910.1200 and / or 40 CFR 350.

## SECTION 3 - HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

Colorless liquid, combustible, low order of toxicity, may cause slight irritation upon contact with eyes or skin. Exposure to vapors not a likely hazard.

### POTENTIAL HEALTH EFFECTS

**INHALATION:** Exposure to vapors not likely. High concentrations may be irritating to the respiratory tract; may cause headache, dizziness, nausea, vomiting and malaise.

**SKIN:** Brief contact may cause slight irritation; prolonged contact may cause moderate irritation.

**EYES:** Contact may cause slight temporary irritation. Corneal injury is unlikely.

**INGESTION:** Small amounts ingested are not likely to cause injury. Ingestion of large amounts may cause headache, dizziness, diarrhea and general weakness.

CARCINOGENICITY

NTP?

No

IARC MONOGRAPHS?

No

OSHA REGULATED?

No

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## SECTION 4 - FIRST AID MEASURES

**INHALATION:** Remove affected person to fresh air; provide oxygen if breathing is difficult; if affected person is not breathing, administer CPR and seek emergency medical attention.

**SKIN:** Remove contaminated clothing; wash affected area with soap and water; launder contaminated clothing before reuse; if irritation persists, seek medical attention.

**EYES:** Remove contact lenses. Flush eyes with clear running water for 15 minutes while holding eyelids open; if irritation persists, seek medical attention.

**INGESTION:** Do not induce vomiting unless directed to do so by medical personnel; never give anything by mouth to an unconscious person; seek medical attention.

## SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT (METHOD USED)

176° F (80° C) TCC

FLAMMABLE LIMITS

LEL: 1.2%

UEL: 5.4%

AUTOIGNITION TEMPERATURE: Not determined

NFPA CLASS: **IIA**

**GENERAL HAZARDS:** Product is combustible. Products of combustion include compounds of carbon, hydrogen and oxygen, including carbon monoxide.

**EXTINGUISHING MEDIA**

Carbon dioxide, water, water fog, dry chemical, chemical foam

**FIRE FIGHTING PROCEDURES**

Self - contained respiratory equipment; cool containers to prevent pressure buildup and possible explosion when exposed to extreme heat.  
Caution - material is combustible!

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers can explode due to buildup of pressure when exposed to extreme heat.

**HAZARDOUS COMBUSTION PRODUCTS**

Smoke, fumes, oxides of carbon

## SECTION 6 - ENVIRONMENTAL RELEASE MEASURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** COMBUSTIBLE - Evacuate and ventilate area; remove all sources of sparks, ignition and open flames; confine and absorb into approved absorbent; place material into approved containers for disposal; do not wash to sewer or waterway.

## SECTION 7 - HANDLING AND STORAGE

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** This material is combustible. It should be stored in tightly closed containers in a cool, well ventilated area. Vapor may form explosive mixtures in air. All sources of ignition should be controlled. Keep this and other chemicals out of reach of children. Avoid inhaling concentrated fumes or vapors.

## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### ENGINEERING CONTROLS

The use of local exhaust ventilation is recommended to control emissions near the source. Provide mechanical ventilation of confined spaces. Use explosion-proof ventilation equipment. See Section 2 for Component Exposure Guidelines.

### PERSONAL PROTECTION:

**RESPIRATORY PROTECTION (SPECIFY TYPE):** None required while threshold limits (Section 2) are kept below maximum allowable concentrations; if TWA exceeds limits, NIOSH approved respirator must be worn. Refer to 29 CFR 1910.134 or European Standard EN 149 for complete regulations.

**PROTECTIVE GLOVES:** Neoprene or rubber gloves with cuffs.

**EYE PROTECTION:** Goggles with side shields; safety eyebath nearby.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Coveralls, apron, or other equipment should be worn to minimize skin contact.

**WORK / HYGIENIC PRACTICES:** Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.

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**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

VAPOR PRESSURE (MM Hg) < 0.1 mm Hg @ 20 ° C	VAPOR DENSITY (AIR = 1) 6.6
SPECIFIC GRAVITY (WATER = 1) 0.972	EVAPORATION RATE (WATER = 1) < 1
SOLUBILITY IN WATER Appreciable (> 20%)	FREEZING POINT Not determined
pH Not applicable	APPEARANCE AND ODOR Colorless liquid, sweet ether odor
BOILING POINT 408°F (209° C)	PHYSICAL STATE Liquid
VISCOSITY Approximately that of water	VOLATILE ORGANIC COMPOUNDS (Total VOC's) 8.12 lbs / gallon

**SECTION 10 - STABILITY AND REACTIVITY**

STABILITY UNSTABLE: STABLE: XXX	CONDITIONS TO AVOID: Extreme temperatures, open flames
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, strong acids	
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, hydrocarbons, fumes, and smoke may be produced.	
HAZARDOUS POLYMERIZATION MAY OCCUR: WILL NOT OCCUR: XXX	CONDITIONS TO AVOID: None

**SECTION 11 - TOXICOLOGICAL INFORMATION**

Hazardous Ingredients	%	CAS #	LD50 of Ingredient (Specify Species and Route)	LC50 of Ingredient (Specify Species)
Proprietary Ingredient (a)	75 - 95	Not specified	> 5000 mg / kg Oral - rat	Not established
Ethanol	1 - 5	64-17-5	3450 mg / kg Oral - mouse	20,000 ppm / 10H Inhalation - rat

**SECTION 12 - ECOLOGICAL INFORMATION**

No data are available on the adverse effects of this material on the environment. Neither COD nor BOD data are available. Based on the chemical composition of this product it is assumed that the mixture can be treated in an acclimatized biological waste treatment plant system in limited quantities. However, such treatment should be evaluated and approved for each specific biological system. None of the ingredients in this mixture are classified as a Marine Pollutant.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL METHOD: Dispose of in accordance with Local, State, and Federal Regulations. This product may produce concentrated hazardous vapors or fumes in a disposal container creating a dangerous environment. Refer to "40 CFR Protection of Environment Parts 260 - 299" for complete waste disposal regulations for ignitable materials. Consult your local, state, or Federal Environmental Protection Agency before disposing of any chemicals. Do not flush to sanitary sewer or waterway.

**SECTION 14 - TRANSPORT INFORMATION**

PROPER SHIPPING NAME: Not Regulated

HAZARD CLASS / Pack Group: None / None  
REFERENCE: Not Applicable  
IDENTIFICATION NUMBER: None  
LABEL: None Required

IATA HAZARD CLASS / Pack Group: None  
IMDG HAZARD CLASS: None  
RID/ADR Dangerous Goods Code: None  
Canadian TDG Class / Division: None  
HAZARD SYMBOLS: None

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EC, Canadian TDG, and United Nations TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

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**SECTION 15 - REGULATORY INFORMATION**

**TSCA (Toxic substance Control Act)**

Components of this product are listed on the TSCA Inventory.

**SARA TITLE III (Superfund Amendments and Reauthorization Act)**

311/312 Hazard Categories

None

313 Reportable Ingredients:

None

**CERCLA (Comprehensive Response Compensation and Liability Act)**

None

**CPR (Canadian Controlled Products Regulations)**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations

**IDL (Canadian Ingredient Disclosure List)**

Components of this product listed on the Canadian Ingredient Disclosure List are shown in Section 2.

**EINECS (European Inventory of Existing Commercial Chemical Substances)**

Components of this product are on the European Inventory of Existing Commercial Chemical Substances

**EC Risk Phrases**

**EC Safety Phrases**

S16 Keep away from sources of ignition.

**SECTION 16 - OTHER INFORMATION**

No specific notes.

**HMIS HAZARD RATINGS**

HEALTH	0	0 = INSIGNIFICANT	3 = HIGH
FLAMMABILITY	2	1 = SLIGHT	4 = EXTREME
REACTIVITY	0	2 = MODERATE	

PERSONAL PROTECTIVE EQUIPMENT C Safety Glasses, Gloves, Apron

**REVISION SUMMARY:**

This MSDS has been revised in the following sections:  
No revisions available

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The information contained herein is believed to be accurate but is not warranted to be so. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed.