

# **SAFETY DATA SHEET**

Issue Date 21-Feb-2011

Revision Date 18-Jan-2018 Version 1

# 1. IDENTIFICATION

**Product Identifier** 

Product Name Collodion A10

Other means of identification

**SDS** # MD0006

UN/ID No UN1993 Product Code MD0006

Recommended use of the chemical and restrictions on use Recommended Use Medical skin coating.

Details of the supplier of the safety data sheet

**Supplier Address** 

Mavidon Medical Products 6625 White Drive Riviera Beach, FL 33407

Emergency telephone number

Company Phone Number 561-585-2227

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

1-800-535-5053 (North America)

# 2. HAZARDS IDENTIFICATION

## Classification

Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 2

# Signal word Danger

#### **Hazard statements**

Causes severe eye irritation May cause respiratory irritation. May cause drowsiness or dizziness Highly flammable liquid and vapor





Appearance Colorless liquid

Physical state liquid

Odor Mild

#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

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

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof equipment Use only non-sparking tools

Take precautionary measures against static discharge

Wear protective gloves/protective clothing/eye protection/face protection

Keep cool

# **Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continuerinsing If eye irritation persists: Get medical advice/attention

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician

In case of fire: Use CO2, dry chemical, or foam for extinction

#### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

May be harmful in contact with skin

#### Other Information

Not Applicable

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%	Trade Secret
Acetone	67-64-1	84-95	*
Isopropyl alcohol	67-63-0	3-6	*
Cellulose nitrate	9004-70-0	7-10	*

# 4. FIRST AID MEASURES

# First aid measures

**General advice** Provide this SDS to medical personnel for treatment.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get medical attention.

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

present and easy to do. Continue rinsing. Get medical attention if irritation develops or

persists.

**Ingestion** Drink 1 or 2 glasses of water. Do NOT induce vomiting. Never give anything by mouth to an

unconscious person. Get medical attention.

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**Skin Contact** Remove contaminated clothing and shoes. Wash with soap and water. Wash contaminated

clothing before reuse. If irritation or redness develops, seek medical attention.

#### Most important symptoms and effects, both acute and delayed

Symptoms May cause irritation to the mucous membranes and upper respiratory tract. May cause skin

and eye irritation. Abdominal pain, stomach upset, nausea, vomiting and diarrhea.

#### Indication of any immediate medical attention and special treatment needed

**Note to physicians**Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Foam, Dry Chemical, Carbon Dioxide.

Unsuitable Extinguishing Media Not determined.

#### Specific hazards arising from the chemical

Not determined.

Sensitivity to Static Discharge Flammable mixtures of this product are readily ignited even by static discharge.

#### 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**Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Remove all sources of ignition.

#### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so. Remove all sources of ignition. Absorb

spill with inert material (e.g. dry sand or earth). For small spills, absorb on polypads or other

suitable non-reactive absorbent materials.

Methods for cleaning up

Use clean non-sparking tools to collect absorbed material. Dispose of contents/container to

an approved waste disposal plant. Sweep up and shovel into suitable containers for

disposal.

# 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes or clothing. Do not breathe dust/fume/gas/mist/vapors/spray.

Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Take precautionary measures against static discharges. Wear appropriate personal protective equipment. Keep container tightly closed. Ground/bond container and receiving equipment. Use spark-proof tools and explosion-proof equipment. Wash face, hands and any exposed skin thoroughly

after handling. Use only outdoors or in a well-ventilated area.

#### Conditions for safe storage, including any incompatibilities

Storage Conditions Keep in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other

sources of ignition (i.e., pilot lights, electric motors and static electricity). Store locked up.

Keep tightly closed in original container.

Packaging materials Keep in original container.

**Incompatible materials** Oxidizers. Concentrated nitric and sulfuric acids.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines** 

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Acetone	STEL: 750 ppm	TWA: 1000 ppm TWA: 2400	IDLH: 2500 ppm
67-64-1	TWA: 500 ppm	mg/m³	TWA: 250 ppm TWA: 590 mg/m <sup>3</sup>
		(vacated) TWA: 750 ppm	
		(vacated) TWA: 1800 mg/m <sup>3</sup>	
		(vacated) STEL: 2400 mg/m <sup>3</sup>	
		The acetone STEL does not	
		apply to the cellulose acetate	
		fiber industry. It is in effect for all	
		other sectors (vacated) STEL:	
		1000 ppm	
Isopropyl alcohol	STEL: 400 ppm	TWA: 400 ppm TWA: 980 mg/m <sup>3</sup>	IDLH: 2000 ppm
67-63-0	TWA: 200 ppm	(vacated) TWA: 400 ppm	TWA: 400 ppm TWA: 980 mg/m <sup>3</sup>
		(vacated) TWA: 980 mg/m <sup>3</sup>	STEL: 500 ppm STEL: 1225
		(vacated) STEL: 500 ppm	mg/m³
		(vacated) STEL: 1225 mg/m <sup>3</sup>	

#### Appropriate engineering controls

Engineering Controls Ventilation must be adequate to maintain the ambient workplace atmosphere below the

exposure limit(s) outlined in the SDS.

# Individual protection measures, such as personal protective equipment

**Eye/face protection** Chemical safety goggles/faceshield.

**Skin and body protection** Wear suitable protective clothing.

**Respiratory protection** Ensure adequate ventilation, especially in confined areas.

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

# 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Physical state liquid

Appearance Colorless liquid Odor Mild

ColorColorlessOdor thresholdNot determined

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH Not determined
Melting point/freezing point -95 °C / -139 °F

Boiling point/boiling range 55.5 °C / 132 °F Flash point > -20 °C / > -4 °F

**Evaporation rate** 7.7 (butyl acetate = 1)

Flammability (solid, gas) Not determined

Flammability Limits in Air

Upper flammability limits 12.8% Lower flammability limit 2.5%

 Vapor pressure
 .53 atm
 @ 68°F (20C)

 Vapor density
 2.0
 (Air=1)

 Specific Gravity
 .8285
 (1=water)

Water solubility Soluble in water Solubility in other solvents Not determined Partition coefficient Not determined **Autoignition temperature** Not determined **Decomposition temperature** Not determined Kinematic viscosity Not determined **Dynamic viscosity** Not determined Not determined **Explosive properties Oxidizing properties** Not determined

#### **Other Information**

# 10. STABILITY AND REACTIVITY

#### Reactivity

Not reactive under normal conditions

#### **Chemical stability**

Stable under recommended storage conditions.

#### **Possibility of Hazardous Reactions**

None under normal processing.

**Hazardous polymerization** Hazardous polymerization does not occur.

#### Conditions to avoid

Keep out of reach of children. Incompatible materials. Keep away from heat, sparks and open flame.

#### Incompatible materials

Oxidizers. Concentrated nitric and sulfuric acids.

# **Hazardous Decomposition Products**

If heated to decomposition, CO and CO2 may be produced.

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

#### **Product Information**

**Inhalation** May cause irritation of respiratory tract.

**Eye contact** Causes severe eye irritation.

**Skin Contact** Avoid contact with skin.

**Ingestion** May cause gastrointestinal irritation, nausea, diarrhea, and vomiting.

# **Component Information**

Chemical Name Oral LD50 Dermal LD50 Inhalation LC50
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Acetone 67-64-1	5800 mg/kg ( Rat )	-	-
Cellulose nitrate 9004-70-0	> 5 g/kg (Rat)	-	-
Isopropyl alcohol 67-63-0	4396 mg/kg (Rat)	12800 mg/kg ( Rat ) 12870 mg/kg ( Rabbit )	72.6 mg/L (Rat)4 h

#### 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 Isopropyl Alcohol (IPA) is an IARC Monograph Group 3 chemical. IPA is a Group 1 when

manufactured by the strong-acid process. Cellulose nitrate is considered an IARC 2A

carcinogen when used in manufacturing of some paints.

Chemical Name	ACGIH	IARC	NTP	OSHA
Isopropyl alcohol 67-63-0		Group 1 Group 3		X
Cellulose nitrate 9004-70-0		Group 2A		Х

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

# **Numerical measures of toxicity- Product**

Not determined

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 5663 mg/kg
ATEmix (dermal) 2500 mg/kg
ATEmix (inhalation-gas) 25000 mg/l
ATEmix (inhalation-dust/mist) 72.6 mg/l

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
Acetone 67-64-1		4.74 - 6.33: 96 h Oncorhynchus mykiss mL/L LC50 6210 - 8120: 96 h Pimephales promelas mg/L LC50 static 8300: 96 h Lepomis macrochirus mg/L	microorganisms EC50 = 14500 mg/L 15 min	10294 - 17704: 48 h Daphnia magna mg/L EC50 Static 12600 - 12700: 48 h Daphnia magna mg/L EC50
Isopropyl alcohol 67-63-0	>1000: 72 h Desmodesmus subspicatus mg/L EC50 >1000: 96 h Desmodesmus subspicatus mg/L EC50	LC50  11130: 96 h Pimephales promelas mg/L LC50 static 9640: 96 h Pimephales promelas mg/L LC50 flow-through >1400000: 96 h Lepomis macrochirus µg/L LC50		13299: 48 h Daphnia magna mg/L EC50

Persistence and degradability

Material is readily biodegradable.

#### Bioaccumulation

Not determined.

#### Mobility

Not determined.

Chemical Name	Partition coefficient
Acetone 67-64-1	0
Isopropyl alcohol 67-63-0	0.05

Other adverse effects Not determined

# 13. DISPOSAL CONSIDERATIONS

# Waste treatment methods

Disposal of wastes Disposal 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.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Acetone		Included in waste stream:		U002
67-64-1		F039		

Chemical Name	California Hazardous Waste Status	
Acetone 67-64-1	Ignitable	
Isopropyl alcohol 67-63-0	Toxic Ignitable	
Cellulose nitrate 9004-70-0	Ignitable Reactive	

# 14. TRANSPORT INFORMATION

DOT

UN1993

**Proper shipping name** Flammable liquids, n.o.s. (acetone, isopropyl alcohol)

Hazard Class 3
Packing Group II

Reportable Quantity (RQ) 5000 lbs (Acetone)

**IATA** 

UN/ID No UN1993

**Proper shipping name** Flammable liquids, n.o.s. (acetone, isopropyl alcohol)

Hazard Class 3
Packing Group ||

**IMDG** 

UN/ID No UN1993

Proper shipping name Flammable liquids, n.o.s. (acetone, isopropyl alcohol)

Hazard Class 3
Packing Group II

# 15. REGULATORY INFORMATION

# **International Inventories**

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

# **US Federal Regulations**

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Isopropyl alcohol - 67-63-0	67-63-0	3-6	1.0

# SARA 311/312 Hazard Categories

Acute health hazardYesChronic Health HazardYesFire hazardYesSudden release of pressure hazardNoReactive HazardNo

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Acetone	5000 lb		RQ 5000 lb final RQ RQ 2270 kg
67-64-1			final RQ

# **US State Regulations**

#### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Acetone 67-64-1	Х	X	X
Cellulose nitrate 9004-70-0	Х	Х	Х
Isopropyl alcohol 67-63-0	Х	X	Х

# U.S. EPA Label Information

# 16. OTHER INFORMATION IFPA Health hazards Flammability Instability Sp

NFPAHealth hazardsFlammabilityInstabilitySpecial Hazards232Not determinedHMISHealth hazardsFlammabilityPhysical hazardsPersonal protection232B- Safety Glasses,

Gloves

Issue Date21-Feb-2011Revision Date18-Jan-2018Revision NoteFormula 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**