

SAFETY DATA SHEET

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1. IDENTIFICATION

Product Identifier Product Name	Collodion A10				
Other means of identification SDS #	MD0006				
303 #	MD0000				
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 110 Commercial Blvd. Flat Rock, NC 28731 USA					
Emergency telephone number					

Emergency telephone number Company Phone Number Emergency Telephone

561-585-2227 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.

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 effect	ts, 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/m ³	TWA: 250 ppm TWA: 590 mg/m ³
		(vacated) TWA: 750 ppm	
		(vacated) TWA: 1800 mg/m ³	
		(vacated) STEL: 2400 mg/m ³	
		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 ³	IDLH: 2000 ppm
67-63-0	TWA: 200 ppm	(vacated) TWA: 400 ppm	TWA: 400 ppm TWA: 980 mg/m ³
		(vacated) TWA: 980 mg/m ³	STEL: 500 ppm STEL: 1225
		(vacated) STEL: 500 ppm	mg/m ³
		(vacated) STEL: 1225 mg/m ³	-

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 Appearance Color	liquid Colorless liquid Colorless	Odor Odor threshold	Mild Not determined
<u>Property</u> pH Melting point/freezing point Boiling point/boiling range Flash point Evaporation rate Flammability (solid, gas)	Values_ Not determined -95 °C / -139 °F 55.5 °C / 132 °F > -20 °C / > -4 °F 7.7 Not determined	Remarks • Method	

Flammability Limits in Air	
Upper flammability limits	12.8%
Lower flammability limit	2.5%
Vapor pressure	.53 atm
Vapor density	2.0
Specific Gravity	.8285
Water solubility	Soluble
Solubility in other solvents	Not det
Partition coefficient	Not det
Autoignition temperature	Not det
Decomposition temperature	Not det
Kinematic viscosity	Not det
Dynamic viscosity	Not det
Explosive properties	Not det
Oxidizing properties	Not det

2.5% .53 atm 2.0 .8285 Soluble in water Not determined Not determined

@ 68°F (20C) (Air=1) (1=water)

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

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50	
Component Information				
Ingestion	May cause gastrointestina	May cause gastrointestinal irritation, nausea, diarrhea, and vomiting.		
Skin Contact	Avoid contact with skin.	Avoid contact with skin.		
Eye contact	Causes severe eye irritatio	Causes severe eye irritation.		
Inhalation	May cause irritation of res	May cause irritation of respiratory tract.		
Product Information				

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		Group 1		Х
67-63-0		Group 3		
Cellulose nitrate		Group 2A		Х
9004-70-0				

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

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 wastesDisposal should be in accordance with applicable regional, national and local laws and
regulations.Contaminated packagingDisposal 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	
UN/ID No	UN1993
Proper shipping name	Flammable liquids, n.o.s. (acetone, isopropyl alcohol)
Hazard Class	3
Packing Group	II
Reportable Quantity (RQ)	5000 lbs (Acetone)

ΙΑΤΑ

UN/ID No	UN1993
Proper shipping name	Flammable liquids, n.o.s. (acetone, isopropyl alcohol)
Hazard Class	3
Packing Group	11

IMDG

UN/ID No Proper shipping name UN1993 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 hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

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	Х
Cellulose nitrate 9004-70-0	Х	X	Х
Isopropyl alcohol 67-63-0	Х	X	Х

U.S. EPA Label Information

16. OTHER INFORMATION						
NFPA_	Health hazards 2	Flammability 3	Instability 2	Special Hazards Not determined		
<u>HMIS</u>	Health hazards 2	Flammability 3	Physical hazards 2	Personal protection B- Safety Glasses, Gloves		
Issue Date Revision Date Revision Note	21-Feb-2011 01-Apr-2020 Address Change					

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