



# Safety Data Sheet

## 99% Isopropyl Alcohol

### Section 1. Identification

Product Identifier 99% Isopropyl Alcohol  
Synonyms MCHM140; MSD\_SDS0201  
Manufacturer Stock MCHM140  
Numbers

Recommended use For professional use only.  
Uses advised against N/A

Manufacturer Contact Medline  
Address 3 Lakes Drive  
Northfield, IL, 60093  
US

Phone	Emergency Phone	Fax
(800) 633-5463	(800) 424-9300 CHEMTREC	(847) 643-4436

Website  
[www.Medline.com](http://www.Medline.com)

### Section 2. Hazards Identification

Classification EYE IRRITATION - Category 2A  
FLAMMABLE LIQUIDS - Category 2  
SPECIFIC TARGET ORGAN TOXICITY (Single Exposure) - Category 3  
Signal Word Danger

Pictogram



Hazard Statements

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

Precautionary Statements

Response

Call a POISON CENTER or doctor if you feel unwell.  
If eye irritation persists: Get medical advice/attention.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If inhaled: Remove person to fresh air and keep comfortable for breathing.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
In case of fire: Use appropriate media (see section 5) to extinguish.

Prevention

Avoid breathing vapors, mist, or spray.  
Ground/bond container and receiving equipment.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Keep container tightly closed.  
Take precautionary measures against static discharge.  
Use explosion-proof electrical, ventilating, and lighting equipment.  
Use only non-sparking tools.  
Use only outdoors or in a well-ventilated area.  
Wash hands, forearms, and other exposed areas thoroughly after handling.  
Wear protective gloves/eye protection/face protection

Storage

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

Disposal

Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Ingredients of unknown toxicity 0%

Hazards not Otherwise Classified

Other Hazards: Exposure may aggravate pre-existing eye, skin, or respiratory conditions.  
Unknown acute toxicity (GHS-US): No data available.

**Section 3. Ingredients**

CAS	Ingredient Name	Weight %
67-63-0	Isopropyl alcohol	100 %

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First-Aid Measures

### Description of First-aid Measures:

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

Ingestion: Do not induce vomiting. Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

### Most Important Symptoms and Effects Both Acute and Delayed:

General: Causes serious eye irritation. May cause drowsiness and dizziness.

Inhalation: High concentrations may cause central nervous system depression such as dizziness, vomiting, numbness, drowsiness, headache, and similar narcotic symptoms.

Skin Contact: Prolonged exposure may cause skin irritation.

Eye Contact: Contact causes severe irritation with redness and swelling of the conjunctiva.

Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: None expected under normal conditions of use.

### Indication of Any Immediate Medical Attention and Special Treatment Needed:

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

## Section 5. Fire Fighting Measures

### Suitable Extinguishing Media

Powder, alcohol-resistant foam, water spray, carbon dioxide (CO<sub>2</sub>). Water may be ineffective but water should be used to keep fire-exposed container cool.

### Unsuitable Extinguishing Media

Do not use a heavy water stream. A heavy water stream may spread burning liquid.

### Special Hazards Arising From the Substance or Mixture:

Fire Hazard: Highly flammable liquid and vapor.

Explosion Hazard: May form flammable or explosive vapor-air mixture.

Reactivity: Reacts violently with strong oxidizers. Increased risk of fire or explosion.

### Advice for Firefighters:

Precautionary Measures Fire: Under fire conditions, hazardous fumes will be present. Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO<sub>2</sub>).

Reference to other sections:

Refer to section 9 for flammability properties.

## Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

General Measures: Avoid breathing (vapor, mist, spray). Do not get in eyes, on skin, or on clothing. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Use special care to avoid static electric charges. Avoid all contact with skin, eyes, or clothing.

For Non-Emergency Personnel:

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel. Stop leak if safe to do so.

For Emergency Personnel:

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area. Eliminate ignition sources.

Environmental precautions: Prevent entry to sewers and public waters.

Methods and Materials for Containment and Cleaning Up:

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill. Absorb and/or contain spill with inert material. Do not take up in combustible material such as: saw dust or cellulosic material. Use only non-sparking tools.

Reference to Other Sections:

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

## Section 7. Handling and Storage

Precautions for Safe Handling:

Additional Hazards When Processed: Handle empty containers with care because residual vapors are flammable.

Precautions for Safe Handling: Avoid breathing vapors, mist, spray. Avoid contact with skin, eyes and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid contact with skin, eyes and clothing. Avoid contact

with eyes, skin and clothing.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

Conditions for Safe Storage, Including Any Incompatibilities:

Technical Measures: Comply with applicable regulations. Take action to prevent static discharges. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment.

Storage Conditions: Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store in a well-ventilated place. Keep container tightly closed. Keep in fireproof place.

Incompatible Materials: Strong acids, strong bases, strong oxidizers.

Specific End Use(s):

For professional use only.

## Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV	OSHA PEL	STEL
	Isopropyl alcohol	TWA: 200 ppm STEL: 400 ppm	TWA: 400 ppm STEL: 500 ppm	N/A

Personal Protective Equipment

Goggles, Gloves, Apron

Control Parameters:

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

Appropriate Engineering Controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases or vapors may be released. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment.

Personal Protective Equipment:

Safety glasses. Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.

Materials for Protective Clothing:

Chemically resistant materials and fabrics. Wear fire/flare resistant/retardant clothing.

Hand Protection:

Wear chemically resistant protective gloves. Wear protective gloves.

Eye protection:

Chemical safety goggles.

Skin and body protection:

Wear suitable protective clothing.

Respiratory Protection:

If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other information:

When using, do not eat, drink or smoke.

## Section 9. Physical and Chemical Properties

Physical State	Liquid
Color	Clear, colorless
Odor	Alcohol-like
Odor Threshold	N/A
Solubility	Soluble in water.
Partition coefficient Water/n-octanol	0.05 @ 25°C
VOC%	N/A
Viscosity	N/A
Specific Gravity	N/A
Density lbs/Gal	0.7855079
Pounds per Cubic Foot	N/A
Flash Point	12 - 13 °C
FP Method	N/A
pH	7 @ 20 - 25 °C
Melting Point	N/A
Boiling Point	N/A
Boiling Range	N/A
LEL	N/A
UEL	N/A
Evaporation Rate	2
Flammability	N/A
Decomposition Temperature	N/A
Auto-ignition Temperature	363 - 425 °C
Vapor Pressure	33 - 45.5 mm Hg
Vapor Density	2.1 15 at 20°C

Lower Flammable Limit: 2.0 - 3.3 %  
 Upper Flammable Limit: 12 - 19 %  
 Relative Density: 0.7855 - 0.79 @ 20 °C  
 Viscosity, Kinematic: 2.6 mm<sup>2</sup>/s @ 25 °C  
 Viscosity, Dynamic: 2.4 - 2.43 mPa.s @ 20 °C

## Section 10. Stability and Reactivity

**Reactivity:** Reacts violently with strong oxidizers. Increased risk of fire or explosion.  
**Chemical Stability:** Extremely flammable liquid and vapor. May form flammable or explosive vapor-air mixture.  
**Possibility of hazardous reactions:** Hazardous polymerization will not occur.  
**Conditions to Avoid:** Direct sunlight, extremely high or low temperatures, heat, hot surfaces, sparks, open flames, incompatible materials, and other ignition sources.

Incompatible Materials: Strong acids, strong bases, strong oxidizers.  
Hazardous Decomposition Products: Decomposition may produce fumes, smoke, oxides of carbon and hydrocarbons.

## Section 11. Toxicological Information

Information on Toxicological Effects - Product: Acute Toxicity (Oral): Not classified  
Acute Toxicity (Dermal): Not classified  
Acute Toxicity (Inhalation): Not classified  
LD50 and LC50 Data: Not available  
Skin Corrosion/Irritation: Not classified  
pH: 7 @ 20 - 25 C (68 - 77 F)  
Eye Damage/Irritation: Causes serious eye irritation.  
Respiratory or Skin Sensitization: Not classified  
Germ Cell Mutagenicity: Not classified  
Carcinogenicity: Not classified  
Specific Target Organ Toxicity (Repeated Exposure): Not classified  
Reproductive Toxicity: Not classified  
Specific Target Organ Toxicity (Single Exposure): May cause drowsiness or dizziness.  
Aspiration Hazard: Not classified  
Symptoms/Injuries After Inhalation: High concentrations may cause central nervous system depression such as dizziness, vomiting, numbness, drowsiness, headache, and similar narcotic symptoms.  
Symptoms/Injuries After Skin Contact: Prolonged exposure may cause skin irritation.  
Symptoms/Injuries After Eye Contact: Contact causes severe irritation with redness and swelling of the conjunctiva.  
Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.  
Chronic Symptoms: None expected under normal conditions of use.

Information on Toxicological Effects - Ingredient(s): Isopropyl alcohol CAS No. 67-63-0  
LD50 Oral Rat: 4710 mg/kg  
LD50 Dermal Rabbit: 4059 mg/kg  
LC50 Inhalation Rat: 72.6 mg/l/4h (Exposure time: 4 h)

Carcinogenicity: Isopropyl alcohol CAS No. 67-63-0  
IARC Group: 3

## Section 12. Ecological Information

Toxicity: Ecology - General: Not classified.

Isopropyl alcohol CAS No. 67-63-0  
LC50 Fish 1: 9640 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])  
EC50 Daphnia 1: 13299 mg/l (Exposure time: 48 h - Species: Daphnia magna)  
EC50 Other Aquatic Organisms 1: 1000 mg/l (Exposure time: 96 h - Species: Desmodesmus subspicatus)  
LC50 Fish 2: 11130 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])  
EC50 Other Aquatic Organisms 2: 1000 mg/l (Exposure time: 72 h - Species:

	Desmodemus subspicatus)
Persistence and Degradability:	Isopropyl Alcohol CAS No. 67-63-0 Persistence and Degradability: Not established.
Bioaccumulative Potential:	Isopropyl Alcohol CAS No. 67-63-0 Bioaccumulative Potential: Not established. Isopropyl alcohol CAS No. 67-63-0 Log Pow: 0.05 (at 25 °C)
Mobility in soil:	Not available.
Other adverse effects:	Other information: Avoid release to the environment.

## Section 13. Disposal

Waste Disposal Recommendations:	Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations
Additional Information:	Handle empty containers with care because residual vapors are flammable.
Ecology - waste materials:	Avoid release to the environment.

## Section 14. Transport Information

UN Number	1219
UN Proper Shipping Name	ISOPROPANOL
DOT Classification	3
Packing Group	II
IMDG - Hazard Class:	3
IMDG - Packing Group:	II
EmS-No. (Fire):	F-E
EmS-No. (Spillage):	S-D
IATA - Hazard Class:	3
IATA - Packing Group:	II
ERG Code:	3L
TDG - Hazard Class:	3
TDG - Packing Group:	II

## Section 15. Regulatory Information

SARA 311/312:	Refer to Section 2 of the SDS.
SARA 302:	N.A.
SARA 304:	N.A.
SARA 313:	Isopropyl alcohol.
TSCA:	All components are listed or exempt.
CERCLA Hazardous Substance List:	N.A.
Clean Air Act (CAA) Section 112, 112 (r):	N.A.
New Jersey Right to Know Components:	ISOPROPYL ALCOHOL.



Pennsylvania Right to Know Components: 2-PROPANOL.  
Rhode Island Right to Know Components: isopropyl alcohol.

**Section 16. Other Information**

Revision Date 2/22/2024

Legend N.A. - Not Applicable  
N.E. - Not Established  
N.D. - Not Determined

Additional Information: The information contained herein is furnished without warranty or legal responsibility of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees.