



Safety Data Sheet

Isopropyl Alcohol 99%

Section 1. Identification

Product Identifier Isopropyl Alcohol 99%
Synonyms MDS098013; MSD_SDS0339
Manufacturer Stock MDS098013
Numbers

Recommended use Diagnostic and Laboratory Use
Uses advised against Use only as directed.

Manufacturer Contact Medline.
Address 3 Lakes Drive
Northfield, IL, 60093
USA

Phone
(800) 633-5463

Emergency Phone
(800) 424-9300
CHEMTREC

Fax
(847) 643-4436

Website
www.Medline.com

Section 2. Hazards Identification

Classification FLAMMABLE LIQUIDS - Category 2
SERIOUS EYE DAMAGE /EYE IRRITATION - Category 2A
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/physician 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 victim to fresh air and keep at rest in a position comfortable for breathing.
In case of fire: Use CO2, dry chemical, or foam for extinction.

Prevention

Avoid breathing fume/gas/mist/vapors/spray.
Ground/bond container and receiving equipment.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Keep container tightly closed.
Take precautionary measures against static discharge.
Use explosion-proof electrical/ventilating/lighting equipment.
Use only non-sparking tools.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection

Storage

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

Disposal

Dispose of contents/container to an approved waste disposal plant.

Ingredients of unknown toxicity

0%

Hazards not Otherwise Classified

Hazards not otherwise classified:

Not applicable.

Other information:

May be harmful if swallowed. May be harmful if inhaled. Prolonged or repeated contact may dry skin and cause irritation.

Interactions with Other Chemicals:

No information available.

Section 3. Ingredients

CAS	Ingredient Name	Weight %
67-63-0	Isopropyl alcohol	50% - 100%
7732-18-5	Water	10% - Max

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

Section 4. First-Aid Measures

Eye Contact:	In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
Skin Contact:	In the case of skin irritation or allergic reactions see a physician.
Inhalation:	Move victim to fresh air. Apply artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.
Ingestion:	Do NOT induce vomiting. Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person. Consult a physician.
Protection of First-aiders:	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
Most important symptoms and effects, both acute and delayed:	Eye irritation. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
Indication of Any Immediate Medical Attention and Special Treatment Needed:	Notes to Physician: Keep victim warm and quiet. Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media	Dry chemical, CO ₂ , water spray, fog or alcohol-resistant foam.
Unsuitable Extinguishing Media	CAUTION: This product has a very low flash point. Use of water spray when fighting fire may be inefficient. Do not use straight streams.
Specific hazards arising from the chemical:	Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard.
Uniform Fire Code:	Flammable Liquid: I-B Irritant: Liquid
Hazardous combustion products:	Carbon oxides.
Explosion data:	Sensitivity to Mechanical Impact: No Sensitivity to Static Discharge: Yes
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. Move containers from fire area if you can do it without risk.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:	Personal Precautions: ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). All equipment used when handling the product must be grounded. Ventilate area with explosion-proof equipment. Do not touch or walk through spilled material. Stop leak if you can do it without risk.
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Other Information:
 Water spray may reduce vapor; but may not prevent ignition in closed spaces.
 Prevent entry into waterways, sewers, basements or confined areas.

Environmental Precautions:

Methods and Materials for Containment and Cleaning up: Methods for Containment:
 A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

Methods for Cleaning-up:
 Soak up with inert absorbent material. Use clean non-sparking tools to collect absorbed material and transfer to properly labeled containers. Keep in suitable and closed containers for disposal.

Section 7. Handling and Storage

Precautions for safe handling: Handle in accordance with good industrial hygiene and safety practice. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists. Keep away from heat, sparks and open flame. No smoking.

Conditions for safe storage, including any incompatibilities: Storage:
 Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers.

Incompatible Products:
 Strong oxidizing agents. Acids. Chlorinated compounds.

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
	Water	N/A	N/A	N/A

Personal Protective Equipment: Goggles, Gloves

Appropriate Engineering Controls: Showers; Eyewash stations; Ventilation systems

Eye/Face Protection: Tightly fitting safety goggles.

Skin and Body Protection: Wear protective gloves/clothing. Antistatic boots.

Respiratory Protection: No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Provide regular cleaning of equipment, work area and clothing. Wash hands before breaks and immediately after handling the product.

Section 9. Physical and Chemical Properties

Physical State	Water thin liquid
Color	Clear, colorless
Odor	Alcohol
Odor Threshold	N.A.
Solubility	Miscible with water
Partition coefficient Water/n-octanol	N.A.
VOC%	N/A
Viscosity	N.A.
Specific Gravity	N/A
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	12 °C/ 54 °F
FP Method	N.A.
pH	N.A.
Melting Point	N.A.
Boiling Point	N.A.
Boiling Range	N.A.
LEL	N/A
UEL	N/A
Evaporation Rate	N.A.
Flammability	N.A.
Decomposition Temperature	N.A.
Auto-ignition Temperature	N.A.
Vapor Pressure	N.A.
Vapor Density	N.A.

Section 10. Stability and Reactivity

Reactivity:	No data available.
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:	Heat, flames and sparks.
Incompatible materials:	Strong oxidizing agents. Acids. Chlorinated compounds.
Hazardous Decomposition Products:	Carbon oxides.

Section 11. Toxicological Information

Information on likely routes of exposure: Inhalation: May cause drowsiness and dizziness.

Eye Contact: Irritating to eyes.

Skin Contact: There is no data available for this product.

Ingestion: There is no data available for this product.

Component Information: Isopropyl Alcohol CAS-No. 67-63-0
LD50 Oral = 4396 mg/kg (Rat)
LD50 Dermal = 12800 mg/kg (Rabbit)
LC50 Inhalation = 16000 ppm (Rat) 8 h

Information on toxicological effects: Symptoms: Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

Sensitization: No information available.

Mutagenic Effects: No information available.

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

Reproductive toxicity: No information available.

Specific Target Organ Toxicity - Single Exposure: No information available.

Specific Target Organ Toxicity - Repeated Exposure: No information available.

Chronic Toxicity: No known effect based on information supplied.

Target Organ Effects: Eyes. Respiratory system. Skin. Central nervous system (CNS).

Aspiration Hazard: No information available.

Numerical Measures of Toxicity Product Information: The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral): 4,440.00 mg/kg
ATEmix (dermal): 12,929.00 mg/kg (ATE)
ATEmix (inhalation-dust/mist): 16,162.00 ATEmix

Section 12. Ecological Information

There is no ecological data on the Product. The Product ingredients are expected to be safe for the environment at concentrations predicted under normal use and accidental spill scenarios. Packaging components are compatible with the conventional solid waste management practices.

Ecotoxicity: No information available.

Persistence/degradability: No information available.

Bioaccumulation: No information available.

Other adverse effects: No information available.

Section 13. Disposal

Waste Disposal Methods: This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261).

Contaminated packaging: Dispose of in accordance with local regulations.
US EPA Waste Number: D001

Section 14. Transport Information

UN Number 1219
UN Proper Shipping Name ISOPROPANOL
DOT Classification 3
Packing Group II
IATA - UN Number: 1219
IATA - UN Proper Shipping Name: ISOPROPANOL
IATA - Hazard Class: 3
IATA - Packing Group: II
IMDG - UN Number: 1219
IMDG - UN Proper Shipping Name: ISOPROPANOL
IMDG - Hazard Class: 3
IMDG - 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 4/13/2023
Legend N.A. - Not Applicable
N.E. - Not Established
N.D. - Not Determined
HMIS (U.S.A.): Health Hazard 2

HMIS (U.S.A.): Flammability	4
HMIS (U.S.A.): Physical Hazard	0
HMIS (U.S.A.): Personal Protection	X
National Fire Protection Association (U.S.A): Health Hazard	2
National Fire Protection Association (U.S.A): Flammability	4
National Fire Protection Association (U.S.A): Instability Hazard	0
National Fire Protection Association (U.S.A): Physical and Chemical Hazards	None.

Additional Information:

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