



# Safety Data Sheet

## 91% Isopropyl Rubbing Alcohol

### Section 1. Identification

Product Identifier 91% Isopropyl Rubbing Alcohol  
Synonyms MDS098012; MSD\_SDS0343  
Manufacturer Stock MDS098012  
Numbers

Recommended use First Aid  
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](http://www.Medline.com)

### Section 2. Hazards Identification

Classification FLAMMABLE LIQUIDS - Category 2  
SERIOUS EYE DAMAGE /EYE IRRITATION - Category 2B  
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 respiratory irritation; 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 or attention.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
In case of fire: Use CO2, dry chemical, or foam for extinction.

Prevention

Avoid breathing dust/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 and container to an approved waste disposal plant.

Ingredients of unknown toxicity

0%

Hazards not Otherwise Classified

Other information:

May be harmful if swallowed.  
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	0% - 10%

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

## Section 4. First-Aid Measures

General Advice:	Show this safety data sheet to the doctor in attendance.
Eye contact:	If symptoms persist, call a physician. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.
Skin contact:	In the case of skin irritation or allergic reactions see a physician. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Inhalation:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, (trained personnel should) give oxygen.
Ingestion:	Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician.
Self-protection of the first aider:	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.
Most important symptoms and effects, both acute and delayed:	Burning sensation.
Indication of Any Immediate Medical Attention and Special Treatment Needed:	Notes to Physician: Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.

## Section 5. Fire Fighting Measures

Suitable Extinguishing Media	Dry chemical. Carbon dioxide (CO <sub>2</sub> ). Water spray. Alcohol resistant foam.
Unsuitable Extinguishing Media	CAUTION: All these products have a very low flash point. Use of water spray when fighting fire may be inefficient. Do not use dry chemical extinguishers to control fires involving nitromethane or nitroethane. Do not use straight streams.
Specific hazards arising from the chemical:	Vapors can 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
Explosion data:	Sensitivity to Mechanical Impact: No Sensitivity to Static Discharge: Yes
Protective Equipment and Precautions for Firefighters:	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. Do not touch or walk through spilled material. Stop leak if you can do it without risk.

Environmental  
Precautions:

Other Information:  
Water spray may reduce vapor; but may not prevent ignition in closed spaces.  
Prevent entry into waterways, sewers, basements or confined areas.

Methods and material 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:  
Use clean non-sparking tools to collect absorbed material.

## Section 7. Handling and Storage

Precautions for safe  
handling:

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Use personal protection equipment. Avoid breathing vapors or mists. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions.

Conditions for safe  
storage, including any  
incompatibilities:

Storage:  
Keep containers tightly closed 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). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

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:	If splashes are likely to occur: Tight sealing safety goggles.
Skin and body protection:	Wear protective gloves and protective clothing. Long sleeved clothing. Chemical resistant apron. Impervious gloves. 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. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. 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.D.
Solubility	Miscible in water
Partition coefficient Water/n-octanol	N.D.
VOC%	N/A
Viscosity	N.D.
Specific Gravity	0.818
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	14 °C/57 °F
FP Method	N.D.
pH	Unknown
Melting Point	N.D.
Boiling Point	82.5 °C/180 °F
Boiling Range	N.D.
LEL	N/A
UEL	N/A
Evaporation Rate	N.D.
Flammability	N.D.
Decomposition Temperature	N.D.
Auto-ignition Temperature	N.D.
Vapor Pressure	N.D.
Vapor Density	N.D.

## 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: Specific test data for the substance or mixture is not available. Eye contact: Specific test data for the substance or mixture is not available. Skin contact: Specific test data for the substance or mixture is not available. Ingestion: Specific test data for the substance or mixture is not available.
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: May cause redness and tearing of the eyes. Symptoms of overexposure may be 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. Blood. Kidney. Liver. Spleen. Systemic Toxicity.
Aspiration Hazard:	No information available.
Numerical measures of toxicity:	ATEmix (oral): 4,831.00 mg/kg ATEmix (dermal): 14,066.00 mg/kg (ATE) ATEmix (inhalation-vapor): 61.11 ATEmix

## Section 12. Ecological Information

Ecotoxicity: The environmental impact of this product has not been fully investigated.  
Persistence/degradability: No information available.  
Bioaccumulation: No information available.  
Other adverse effects: No information available.

## Section 13. Disposal

Disposal methods: This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).  
Contaminated packaging: Dispose of contents/containers 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 11/1/2022

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

National Fire Protection Association (U.S.A): Health Hazard 2

National Fire Protection Association (U.S.A): Flammability 3

National Fire Protection Association (U.S.A): Instability: 0

HMIS (U.S.A.): Health Hazard 2

HMIS (U.S.A.): Flammability 3

HMIS (U.S.A.): Physical Hazard 0

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