



Safety Data Sheet

ISOPROPYL RUBBING ALCOHOL 91%

Section 1. Identification

Product Identifier ISOPROPYL RUBBING ALCOHOL 91%
Synonyms MDS098012 ; MSD_SDS0343
Manufacturer Stock MDS098012
Numbers

Recommended use First Aid
Uses advised against None known.

Manufacturer Contact
Address Medline Industries, Inc.
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 ACUTE TOXICITY - ORAL - Category 4
FLAMMABLE LIQUIDS - Category 3
SERIOUS EYE DAMAGE /EYE IRRITATION - Category 2B
Signal Word Danger

Pictogram



Hazard Statements

Causes eye irritation
Flammable liquid and vapor
Harmful if swallowed

Precautionary Statements

Response

Call a poison center, doctor if you feel unwell.
If eye irritation persists: Get medical advice or attention.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF INHALED: Call a POISON CENTER or doctor if you feel unwell
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If swallowed: Immediately call a poison center, doctor.
Immediately call a poison center, doctor if you feel unwell.
In case of fire: Use extinguishing agent suitable for type of surrounding fire.
Dry chemical or CO₂, water spray, fog or alcohol-resistant foam.
Rinse mouth.

Prevention

Do not eat, drink or smoke when using this product.
Ground, bond container and receiving equipment.
Keep away from heat.
Keep container tightly closed.
Take precautionary measures against static discharge.
Use explosion-proof electrical, ventilating, lighting equipment.
Use only non-sparking tools.
Wash affected area thoroughly after handling.
Wear eye protection, face protection.
Wear protective gloves, eye protection, face protection

Storage

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

Disposal

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

Ingredients of unknown toxicity

0%

Hazards not Otherwise Classified

N.D.

Potential Health Effects:

Primary Routes of Exposure:
Skin contact.

Acute Toxicity:
Eyes: Irritating to eyes.

Skin: Non-irritating during normal use. Prolonged or repeated contact may dry skin and cause irritation.

Inhalation: Inhalation of vapors in high concentration may cause irritation of respiratory system.

Ingestion: Not an expected route of exposure. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause central nervous system depression.

Chronic Effects: Avoid repeated exposure.

Aggravated Medical Conditions: Pre-existing eye disorders. Kidney disorders. Skin disorders. Respiratory disorders. Liver disorders.

Environmental Hazard: See section 12 for Additional Ecological Information.

Section 3. Ingredients

CAS	Ingredient Name	Weight %
67-63-0	Isopropyl alcohol	91 %
7732-18-5	Water	9 %

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

Section 4. First-Aid Measures

Eye Contact:	Rinse immediately with plenty of water, also under the eyelids for at least 15 minutes. If symptoms persist, call a physician.
Skin Contact:	In the case of skin irritation or allergic reactions see a physician.
Inhalation:	Move to fresh air. Apply artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. If symptoms persist, call a physician.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Drink plenty of water. Do not induce vomiting. If symptoms persist, call a physician.
Notes to Physician:	Treat symptomatically. Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.
Protection of First-aiders:	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media	Use extinguishing agent suitable for type of surrounding fire. Dry chemical or CO ₂ , water spray, fog or alcohol-resistant foam. Move containers from fire area if you can do so without risk.
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 a solid water stream as it may scatter and spread fire.
Flammable Properties:	HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames. Containers may explode when heated. Many liquids are lighter than water.
Flash Point:	22°C/ 71°F
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
Special Hazards Arising from the Chemical:	Flammable. 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). Keep product and empty container away from heat and sources of ignition. Risk of ignition.
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:	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. Take precautionary measures against static discharges. Use personal protective equipment. Avoid contact with eyes.
Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas.
Methods for Containment:	Prevent further leakage or spillage if safe to do so.
Methods for Cleaning Up:	Use personal protective equipment. Damp up. Absorb with earth, sand or other non-combustible material. Use clean non-sparking tools to collect absorbed material. Keep in suitable and closed containers for disposal. Clean contaminated surface thoroughly.
Other Information:	Water spray may reduce vapor, but may not prevent ignition in closed spaces.

Section 7. Handling and Storage

Handling	Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Wear personal protective equipment. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing.
Storage:	Keep in properly labeled containers. Keep away from heat and sources of ignition. Keep containers tightly closed in a cool, well-ventilated place.

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	N/A			

Equipment

Exposure guidelines: There is no exposure data pertaining to the Product. This section reflects exposure data pertaining to individual ingredients.

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Other Exposure Guidelines: Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992)

Engineering Measures: Showers
Eyewash stations
Ventilation systems

Personal Protective Equipment: Eye/Face Protection:
Tightly fitting safety goggles.

Skin and Body Protection:
Protective gloves.

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.

Section 9. Physical and Chemical Properties

Physical State	Water thin liquid
Color	Clear, colorless, water thin liquid
Odor	Alcohol
Odor Threshold	No information available
Solubility	Miscible in water
Partition coefficient Water/n-octanol	N.A.
VOC%	N/A
Viscosity	N.D.
Specific Gravity	1
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	22°C/71°F
FP Method	N.D.
pH	No information available

Melting Point	No information available
Boiling Point/Range	78°C/173°F
Explosion Limits	No information available
LEL	N/A
UEL	N/A
Evaporation Rate	No information available
Flammability	No information available
Decomposition Temperature	No information available
Auto-ignition Temperature	No information available
Vapor Pressure	No data available
Vapor Density	No data available

Section 10. Stability and Reactivity

When used in accordance with the directions.

Stability: Stable under recommended storage conditions.

Incompatible Materials: Strong oxidizing agents.

Conditions to avoid: Heat. Flames. Sparks.

Hazardous Decomposition or Byproducts: Carbon oxides.

Hazardous Polymerization: Hazardous polymerization does not occur.

Section 11. Toxicological Information

There is no data for this product. The information included in this section describes the potential hazards of the individual ingredients.

Acute Toxicity: Product Information:

Chemical Name:

Isopropyl Alcohol

LD50 Oral:

4396 mg/kg (Rat)

LD50 Dermal:

12800 mg/kg (Rat)

12870 mg/kg (Rabbit)

LC50 Inhalation:

72.6 mg/L (Rat) 4 h

Chemical Name:

Water

LD50 Oral:

> 90 mL/kg (Rat)

LD50 Dermal:

-

LC50 Inhalation:

-

Chronic Toxicity:

Chronic Toxicity:

Avoid repeated exposure.

Carcinogenicity:

The information below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name:

Isopropyl Alcohol

ACGIH:

-

IARC:

Group 3

NTP:

-

OSHA:

-

IARC: (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans

Target Organ Effects:

Respiratory system.

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.

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

California Hazardous 331

Waste Codes: This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name:

Isopropyl Alcohol

California EHW:
-
California Carc:
-
California Hazardous Waste:
Toxic
Ignitable
California Waste - Part 2:
-

Section 14. Transport Information

UN Number 1219
UN Proper Shipping Name ISOPROPANOL
DOT Classification 3
Packing Group II
Emergency Response 129
Guide Number:
IATA - Description: UN1219,ISOPROPYL ALCOHOL,3,PG II
IMDG - Description: UN1219, ISOPROPANOL,3,PG II

Section 15. Regulatory Information

SARA 311/312: Refer to Section 2 of the SDS.
SARA 302: N.A.
SARA 304: N.A.
SARA 311/312: Isopropyl Alcohol
TSCA: N.A.
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.
Massachusetts Right to Know Components: Isopropyl Alcohol

Section 16. Other Information

Revision Date 08/09/2017
Legend N.A. - Not Applicable
N.E. - Not Established

	N.D. - Not Determined
National Fire Protection Association (U.S.A): Health Hazard	1
National Fire Protection Association (U.S.A): Flammability	3
National Fire Protection Association (U.S.A): Stability:	0
National Fire Protection Association (U.S.A): Physical and Chemical Hazards	None.
Additional Information	

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