



Safety Data Sheet

99% ISOPROPYL ALCOHOL

Section 1. Identification

Product Identifier 99% ISOPROPYL ALCOHOL
Synonyms MDS098013; MSD_SDS0339
Manufacturer Stock MDS098013
Numbers

Recommended use First Aid
Uses advised against No information available.

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

This product contains a chemical or chemicals considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122).

Classification EYE DAMAGE/IRRITATION - Category 2B
FLAMMABLE LIQUIDS - Category 3
SPECIFIC TARGET ORGAN TOXICITY (Single Exposure) - Category 3

Signal Word Warning

Pictogram



Hazard Statements

Causes eye irritation
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.
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.
Specific treatment (see supplemental first aid instructions on this label)

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.
Wash affected area thoroughly after handling.
Wear protective gloves/eye protection/face protection

Storage

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

Disposal

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

Ingredients of unknown toxicity

N.D.

Hazards not otherwise classified:

Not applicable.

Unknown toxicity:

0% of the mixture consists of ingredient(s) of unknown toxicity.

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	0 - 10%

*The exact percentage (concentration) of composition has been withheld as a trade secret

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:	Most Important Symptoms/Effects: 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	In case of fire, use dry chemical, Carbon Dioxide (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. Do not touch or walk through spilled material. Stop leak if you can do it without risk.

Other Information:
Water spray may reduce vapor; but may not prevent ignition in closed spaces.

Environmental
Precautions:

Environmental Precautions:
Prevent entry into waterways, sewers, basements or confined areas.

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 Clean-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:

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, Apron

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) See section 15 for national exposure control parameters.

Appropriate Engineering Controls: Engineering Measures:
Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment: Eye/Face Protection:
Tightly fitting safety goggles.

Skin and Body Protection:
Wear protective gloves/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. 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, water thin liquid
Odor	Alcohol
Odor Threshold	No information available
Solubility	Miscible with water
Partition coefficient Water/n-octanol	No data available
VOC%	N/A
Viscosity	No data available
Specific Gravity	No data available
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	-11°C/ 12°F

FP Method	No data available
pH	No data available
Melting Point	No data available
Boiling Point	No data available
Boiling Range	No data available
LEL	N/A
UEL	N/A
Evaporation Rate	No data available
Flammability	No data available
Decomposition Temperature	No data available
Auto-ignition Temperature	No data available
Vapor Pressure	No data available
Vapor Density	No data available

Section 10. Stability and Reactivity

	When used in accordance with the directions.
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. Sparks.
Incompatibility (Materials to Avoid):	Strong oxidizing agents. Acids.
Incompatibility (Materials to Avoid)	Chlorinated compounds.
Hazardous Decomposition or Byproducts:	Carbon oxides.

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.

Information on Likely
Routes of Exposure:

Product information:

Eye Contact:
Irritating to eyes.

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

Inhalation:
May cause drowsiness and dizziness.

Ingestion:
There is no data available for this product.

Component Information:

Chemical Name:
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.

Delayed-immediate effects,
also chronic effects from
short & long term
exposure:

Sensitization:
No information available.

Mutagenic Effects:
No information available.

Carcinogenicity:
The table below indicates whether each agency has listed any ingredient as a
carcinogen.

Chemical Name:
Isopropyl Alcohol CAS-No. 67-63-0
ACGIH: -
IARC: Group 3
NTP: -
OSHA: X

IARC (International Agency for Research on Cancer)
Group 3 - Not Classifiable as to Carcinogenicity in Humans
OSHA (Occupational Safety and Health Administration)
X - Present

Reproductive Toxicity:
No information available.

STOT - Single exposure:
No information available

STOT - 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)
16,162.00ATEmix

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: The environmental impact of this product has not been fully investigated.
Persistence and 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

California Hazardous Waste Codes: 212

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

Chemical Name:
Isopropyl Alcohol CAS-No. 67-63-0

California Hazardous Waste:
Toxic
Ignitable

Section 14. Transport Information

UN Number 1219
UN Proper Shipping Name ISOPROPANOL
DOT Classification 3
Packing Group II
IATA - UN Number: 1219
IATA - Proper Shipping Name: ISOPROPANOL

Section 15. Regulatory Information

SARA 311/312: Acute Health Hazard:
Yes

Chronic Health Hazard:
No

Fire Hazard:
Yes

Sudden Release of Pressure Hazard:
No

Reactive Hazard:
No

SARA 302: N.A.
SARA 304: N.A.
SARA 313: 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 7/27/2017

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	3
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	3
National Fire Protection Association (U.S.A): Instability Hazard	0
National Fire Protection Association (U.S.A): Physical and Chemical Hazards	None.

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