

OSHA Hazard Communication Standard 29 CFR 1900.1200
Prepared to GHS Rev. 4



**SAFETY
DATA SHEET**

SECTION 1- CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: Isopropanol, 99%

Product Use: Solvent

Use Restrictions: For Industrial and Professional Use Only

Manufacturer: Interstate Chemical, Inc.
3903 Progress Drive
Lakeland, FL 33811
863-607-6700

Transportation Emergency: 800-535-5053 (INFOTRAC)

SECTION 2- HAZARDS IDENTIFICATION

1) GHS Classification of the substance or mixture:

- Acute toxicity, Eye- Category 2A
- Flammable Liquids- Category 2
- Specific target organ toxicity- single exposure- Category 3 (Central Nervous System)

2) Label Elements:



Signal Word: Danger

Hazard Statements:

- H225- Highly flammable liquid and vapor
- H319- Causes serious eye irritation
- H336- May cause drowsiness or dizziness

Precautionary Statements:

- P102- Keep out of reach of children
- P210- Keep away from heat/sparks/open flame
- P233- Keep container tightly closed.
- P241+P242+P243- Use explosion proof electrical/ventilating/lighting equipment. Use only non sparking tools. Take precautionary measures against static discharge.
- P261- Avoid breathing fume and vapours spray.
- P264- Wash skin thoroughly after handling.
- P271- Use only outdoors or in a well ventilated area.
- P280- Wear solvent resistant protective gloves and splash proof eyewear

Response Statements:

- P305+P351+P338- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present, and easy to do so. Continue Rinsing.

P304+P340+ IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P301+P310- IF SWALLOWED: Immediately call POISON CENTER or doctor/physician.

Storage and Disposal Statements:

P233+P235+P403- Keep container tightly closed, keep cool and store in a well-ventilated place.
P501- Dispose of contents/container in accordance with local/regional/national regulation.

Other Hazards:

OSHA HCS 2012- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

HMIS Classification:

Health Hazard- 2
Chronic Health Hazard- 0
Flammability- 3
Physical Hazards- 0

NFPA Classification:

Health- 2
Flammability- 3
Physical Hazard- 0
Instability- 0

SECTION 3- COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical/Common Name</u>	<u>CAS #</u>	<u>PERCENTAGE</u>	<u>HAZARDOUS</u>
Isopropyl Alcohol	67-63-0	90-100%	Yes

SECTION 4- FIRST AID MEASURES

Inhalation: If affected, remove individual to fresh air. If breathing is difficult administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm and quiet and obtain medical attention.

Skin: Immediately flush affected area with lots of water for at least 2 minutes. Remove contaminated clothing and wash before reuse.

Eyes: Flush immediately with large quantities of running water for at least 5 minutes. Obtain medical attention.

Ingestion: Immediately rinse mouth with a lot of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Obtain immediate medical attention.

SECTION 5-FIRE FIGHTING MEASURES

Flash Point: 54°F (T.C.C.)

Autoignition Temperature: 399°C

Lower Explosive Limit: 2.0% (V)

Upper Explosive Limit: 12.7% (V)

General Hazards-

Fire: Product is flammable or combustible in presence of ignition source.

Suitable Extinguishing Media: Use water spray, alcohol resistant foam, dry chemical or carbon dioxide. Treat as class B (flammable liquid) fire.

Fire Fighting Procedures: Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous Combustion Products: Normal thermal decomposition byproducts i.e. carbon oxides.

SECTION 6- ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective equipment including respiratory protection as conditions warrant. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid breathing vapors, mist or gas.

Emergency Procedures: As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Ventilate closed spaces before entering.

Environmental precautions: Avoid run off to waterways and sewers.

Methods and material for containment and cleaning up: Stop leak if you can do it without risk. Absorb or cover with dry earth, sand or other non-combustible material (i.e. sand, earth, vermiculite) and transfer to appropriate waste disposal container.

SECTION 7- HANDLING AND STORAGE

Precautions for safe handling:

Avoid formation of aerosol. Avoid contact with skin and eyes by wearing protective clothing and equipment. Avoid inhalation of vapour or mist. Use only with adequate ventilation. Take precautionary measures against static discharge.

Conditions for safe storage:

Keep container tightly closed in a dry and well-ventilated place. Store away from acids, acidic materials and oxidizers. Do not store near heat or open flame.

SECTION 8- EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters:

Component	CAS #	ACGIH Exposure Limits	OSHA Exposure Limits
Isopropyl Alcohol	67-63-0	400 ppm (TWA)	200 ppm (TWA)

Personal Protective Equipment-

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment. Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or symptoms are experienced.

Hand protection: Wear protective gloves made from the following materials- nitrile rubber or polyethylene. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye Protection: Wear safety glasses with side shields.

Skin and Body Protection: Where extensive dermal exposure may be expected, either a chemical suit or chemical apron will be needed.

Hygienic Practices: Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Safety shower and eye wash should be available close to work areas.

SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

Products Description:	Clear colorless liquid with characteristic odor
Odor Threshold:	200 ppm
Solubility in Water:	Completely soluble
Boiling Point:	180°F
Vapor Pressure (mmHg):	32 mmHg @ 25°C (77°F)
Vapor Density (AIR=1):	2 @ 20°C (68°F)
Evaporation Rate (BUTYL ACETATE=1):	1.2
Flash Point (T.C.C.):	54°F
pH (1% w/w in water):	No data available

SECTION 10- STABILITY AND REACTIVITY DATA

Stability: Stable under recommended storage conditions.

Material to Avoid: Avoid contact with acids and strong oxidizers such as ethylene oxide, chlorine, aldehydes.

Conditions to Avoid: Keep away from heat, sparks and open flame.

Hazardous Reactions: Vapors may form explosive mixture with air.

Hazardous Decomposition Products: May form carbon dioxide, carbon monoxide, and oxides of nitrogen.

SECTION 11- TOXICOLOGICAL INFORMATION

Isopropyl Alcohol-

Acute oral toxicity- LD50 Oral: 5,500 mg/kg

Species: Rat

Symptoms: ataxia, vomiting, pain, hypothermia, coma, dizziness

Acute inhalation toxicity- LC50: >10000 ppm

Species: Male and Female Rat

Exposure Time: 6 hours

Test Atmosphere: vapour

Symptoms: central nervous system depression

Acute dermal toxicity- LD50: >12,800 mg/kg

Species: Rabbit

Exposure Time: 4 hours

Method: in vivo

Result: Not irritating to skin

Remarks: Not irritating to skin

GERM CELL MUTAGENICITY-

Assessment- Animal testing did not show any mutagenic effects.

REPRODUCTIVE TOXICITY-

Assessment- Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal experiments.

SECTION 12- ECOLOGICAL INFORMATION

Isopropyl Alcohol-

ECOTOXICITY-

Toxicity to fish: LC50 (Fathead Minnow): 9,640 mg/l

Exposure Time: 96 Hours

Test Type: Flow-through test

Toxicity to daphnia and other aquatic invertebrates: EC50 (Water flea): >10,000 mg/l

Exposure Time: 24 Hours

Test Type: Static test

Toxicity to algae: No data available

Toxicity to bacteria: 1,050 mg/l

Exposure Time: 16 hours

PERSISTENCE AND DEGRADABILITY-

Result: readily biodegradable

Biodegradation: 95%

Method: OECD test guideline 301E

Chemical Oxygen Demand (COD): 0.00209 mg/g

Theoretical Oxygen Demand (ThOD): 0.00240 mg/g

BIOACCUMULATIVE POTENTIAL-

Bioconcentration factor (BCF): 3.16

Partition coefficient: log Pow- -0.24

MOBILITY IN SOIL-

Remarks: absorbs on soil

REGULATION/REMARKS-

Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone, CAA Section 602 Class I Substances.

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A+B).

SECTION 13- DISPOSAL CONSIDERATIONS

Further information: Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of as hazardous waste in compliance with local and national regulations.

SECTION 14- TRANSPORT INFORMATION

Transport in accordance with all federal, state and local regulations.

DOT-

UN Number: UN 1219

UN proper shipping name: Isopropanol

Hazard class: 3

Packing group: II

IATA (International Air Transport Association): UN1219, Isopropanol, 3 , II

IMDG (International Maritime Dangerous Goods): UN1219, Isopropanol, 3, II, Flash Point:12 °C(54 °F)

SECTION 15- REGULATORY INFORMATION

OSHA Hazards: Flammable liquid, mild eye irritant.

CERCLA Reportable Quantity- This product does not contain any components with a CERCLA reportable quantity.

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: Fire hazard, acute health hazard

Clean Air Act: This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F). The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):
67-63-0 Isopropyl Alcohol 100%

Massachusetts Right to Know Components:

Product	CAS No.	Percentage
Isopropyl Alcohol	67-63-0	90-100%

Pennsylvania Right to Know Components:

Product	CAS No.	Percentage
Isopropyl Alcohol	67-63-0	90-100%

California Prop. 65 Components: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16- OTHER INFORMATION

References: Not available

Other Special Considerations: Not available

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