



Section 1. Identification

Product Identifier

Product Identity Isopropyl Alcohol 99
Other Means of Identification Isopropanol, IPA 99%

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Identified Uses: Industrial use.

Details of the Supplier of the Safety Data Sheet

Company Name Silver Fern Chemical, Inc.
2226 Queen Anne Avenue North
Seattle, WA 98109 USA
Customer Service: 1-866-282-3384 /
info@silverfernchemical.com
Website - www.silverfernchemical.com

**Emergency
24-hour Emergency
Telephone No.** Emergency telephone number
Infotrac: 1-800-535-5053; Outside USA & Canada +1-
352-323-3500

Customer Service:

Section 2. Hazard(s) Identification

Classification of the Substance or Mixture Under OSHA's Hazard Communication Standard (1910.1200) Revised 2024 (GHS Revision 7)

Flammable Liquid, category 2; H225	Highly Flammable liquid and vapor.
Serious eye damage / eye irritation, category 2; H319	Causes serious eye irritation.
Specific target organ toxicity, Specific exposure category 3; H336	May cause drowsiness or dizziness.

Label Elements



Silver Fern Chemical, Inc.
Safety Data Sheet
Isopropyl Alcohol 99

Revision Date: 08/14/2024



Danger

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

[Prevention]

P210 Keep away from heat, sparks, open flames, and other ignition sources - No smoking.
P233 Keep container tightly closed.
P235 Keep cool.
P240 Ground, bond container and receiving equipment.
P241 Use explosion-proof electrical, ventilating, light, equipment.
P242 Use only non-sparking tools.
P243 Take action to prevent static discharges.
P261 Avoid breathing dust, fume, gas, mist, vapors, spray.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves, eye protection, and face protection.

[Response]

P303+361+353 IF ON SKIN (or hair): Remove, take off immediately all contaminated clothing. Rinse skin with water, shower.
P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER, doctor or physician if you feel unwell.
P337+313 If eye irritation persists: Get medical advice or attention.



Silver Fern Chemical, Inc.
Safety Data Sheet
Isopropyl Alcohol 99

Revision Date: 08/14/2024

P370+378 In case of fire: Use extinguishing media listed in section 5 of SDS for extinction.

[Storage]

P403+233 Store in a well-ventilated place. Keep container tightly closed.

P403+235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

[Disposal]

P501 Dispose of contents or container in accordance with local and national regulations.

Other Hazards

This product contains no PBT/vPvB chemicals.

This product contains no endocrine disrupting chemicals.

Section 3. Composition/Information on Ingredients

This product contains the following substances that present a hazard within the meaning of the OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7).

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Isopropyl Alcohol CAS Number: 67-63-0 Synonyms: ISOPROPYL ALCOHOL (manufacture-strong acid process, Propan-2-ol, Solvent C-3, ISOPROPANOL	100%	Flammable Liquid, category 2; H225 Serious eye damage / eye irritation, category 2; H319 Specific target organ toxicity, Specific exposure category 3; H336	No data available.

The actual concentration or concentration range is withheld as a trade secret.

*PBT/vPvB - PBT-substance or vPvB-substance.

The full texts of the phrases are shown in Section 16.

Section 4. First Aid Measures

Description of First Aid Measures

General In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.



- Eyes** Rinse with plenty of clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
- Skin** Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
- Ingestion** If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

Most Important Symptoms and Effects, Both Acute and Delayed

Overview Treat symptomatically. Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage. See section 2 for further details.

Eyes Causes serious eye irritation.

Section 5. Fire-Fighting Measures

Extinguishing Media

Recommended extinguishing media; alcohol resistant foam, CO₂, powder, water spray.
Unsuitable extinguishing media: Do not use; water jet.

Special Hazards Rising from the Substance or Mixture

Hazardous decomposition: No hazardous decomposition data available.
Keep away from heat, sparks, open flames, and other ignition sources - No smoking.
Keep container tightly closed.
Keep cool.
Ground, bond container and receiving equipment.
Use explosion-proof electrical, ventilating, light, equipment.
Use only non-sparking tools.



Take action to prevent static discharges.
Avoid breathing dust, fume, gas, mist, vapors, spray.

Advice for Fire-Fighters

As with all fires, wear positive pressure, self-contained breathing apparatus, (SCBA) with a full-face piece and protective clothing. Persons without respiratory protection should leave area. Wear SCBA during clean-up immediately after fire. No smoking.

ERG Guide No.

129

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Put on appropriate personal protective equipment (see section 8).
Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

Environmental Precautions

Do not allow spills to enter drains or waterways.

Methods and Material for Containment and Cleaning Up

Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in section 8.
Contain and absorb spillage with non-combustible materials e.g. sand, earth, and vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations.

Section 7. Handling and Storage

Precautions for Safe Handling

Handle containers carefully to prevent damage and spillage.
See section 2 for further details. - [Prevention]

Conditions for Safe Storage, Including any Incompatibilities

Incompatible materials: No available information.
See section 2 for further details. - [Storage]



Specific End Use(s)

No available information.

Section 8. Exposure Controls / Personal Protection

Control Parameters

Exposure

CAS No.	Ingredient	Source	Value
67-63-0	Isopropyl Alcohol	OSHA	400 ppm, 980 mg/m ³
		ACGIH	200 ppm 400 ppm
		NIOSH	TWA 400 ppm (980 mg/m ³) STEL: 500 ppm (1225 mg/m ³)

Exposure Controls

Respiratory If workers are exposed to concentrations above the exposure limit, they must use the appropriate, certified respirators.

Eyes Wear safety glasses with side shields to protect the eyes. An eye wash station is suggested as a good workplace practice.

Skin Avoid skin contact. Protective gloves recommended.

Engineering Controls Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details.

Section 9. Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Physical State Form

Liquid.
Liquid.



Silver Fern Chemical, Inc.
Safety Data Sheet
Isopropyl Alcohol 99

Revision Date: 08/14/2024

Color	Clear, colorless.
Odor	Alcohol-like.
Melting Point / Freezing Point	-92 °C (-134 °F)
Initial Boiling Point and Boiling Range	82 °C (180 °F)
Flammability (Solid, Gas)	No available information.
Upper/Lower Flammability or Explosive Limits	Lower Explosive Limit: 3.3 % (V) Upper Explosive Limit: 19 % (V)
Flash Point	13 °C (55 °F)
Auto-Ignition Temperature	363 °C (685 °F)
Decomposition Temperature	No available information.
pH	7
Viscosity (cSt)	No available information.
Solubility in Water	Completely miscible.
Partition Coefficient N-Octanol/Water (Log K_{ow})	No available information.
Vapor Pressure (Pa)	No available information.
Density	0.79 g/cm ³ @ 20 °C (68 °F)
Vapor Density	No available information.
Evaporation Rate (Ether = 1)	No available information.
VOC Content	100%
Oxidizing Properties	No available information.
Explosive Properties	No available information.

Other Information

No other relevant information.

Section 10. Stability and Reactivity

Reactivity

Hazardous Polymerization will not occur.

Chemical Stability

Stable under normal circumstances.

Possibility of Hazardous Reactions

No available information.

Conditions to Avoid

Heat, flames and sparks. Avoid temperatures above 35°C, direct sunlight and contact with sources of heat.

Incompatible Materials

Strong acids and oxidizing agents, Acid anhydrides, Aluminum, Halogenated compounds.

Hazardous Decomposition Products



Silver Fern Chemical, Inc.
Safety Data Sheet
Isopropyl Alcohol 99

Revision Date: 08/14/2024

Vapors may form explosive mixture with air.

Section 11. Toxicological Information

Acute Toxicity

Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Isopropyl Alcohol - (67-63-0)	5,840.00, Rat - Category: NA	16,400.00, Rabbit - Category: NA	72.60, Rat - Category: NA	No data available.	No data available.

Carcinogen Data

CAS No.	Ingredient	Source	Value
67-63-0	Isopropyl Alcohol	OSHA	Regulated Carcinogen: No.
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes;
		ACGIH	A4

Classification	Category	Hazard Description
Acute Toxicity (Oral)	---	Not applicable.
Acute Toxicity (Dermal)	---	Not applicable.
Acute Toxicity (Inhalation)	---	Not applicable.
Skin Corrosion/Irritation	---	Not applicable.



Silver Fern Chemical, Inc.
Safety Data Sheet
Isopropyl Alcohol 99

Revision Date: 08/14/2024

Serious Eye Damage/Irritation	2	Causes serious eye irritation.
Respiratory Sensitization	---	Not applicable.
Skin Sensitization	---	Not applicable.
Germ Cell Mutagenicity	---	Not applicable.
Carcinogenicity	---	Not applicable.
Reproductive Toxicity	---	Not applicable.
STOT-Single Exposure	---	Not applicable.
STOT-Repeated Exposure	---	Not applicable.
Aspiration Hazard	---	Not applicable.

Possible routes of entry:

Symptoms and Effects, Both Acute and Delayed:

Treat symptomatically.

Eyes Causes serious eye irritation.

Section 12. Ecological Information

Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/L	48 hr EC50 crustacea, mg/L	ErC50 algae, mg/L
Isopropyl Alcohol - (67-63-0)	10,000.00, Pimephales promelas	No data available.	No data available.

Persistence and Degradability

There is no data available on the preparation itself.

Bio Accumulative Potential

No available information.

Mobility in Soil

No available information.

Results of PBT and vPvB Assessment

This product contains no PBT/vPvB chemicals.

Other Adverse Effects

No available information.



Section 13. Disposal Considerations

Waste Treatment Methods

Observe all federal, provincial and local regulations when disposing of this substance.

Section 14. Transport Information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
UN Number	UN1219.	UN1219.	UN1219.
UN Proper Shipping Name	Isopropanol or Isopropyl alcohol.	Isopropanol or Isopropyl alcohol.	Isopropanol or Isopropyl alcohol.
Transport Hazard Class(es)	DOT Hazard Class: 3 Sub Class: Not applicable.	IMDG: 3 Sub Class: Not applicable.	Air Class: 3 Sub Class: Not applicable.
Packing Group	II	II	II

Environmental Hazards

Marine Pollutant: No.

Special Precautions for User

No available information.

Section 15. Regulatory Information

Regulatory Overview The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Classification of the substance or mixture under OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7)

Toxic Substance Control Act (TSCA)

CAS Number	Ingredient	Toxic Substance Control Act (TSCA)	Comments	Status
000067-63-0	Isopropyl Alcohol	Yes		ACTIVE



The Following Flags are Used:

- Active - indicates commercial status designation of active
- E - indicates a substance that is the subject of a Section 5(e) Consent Order under TSCA.
- F - indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N - indicates a polymeric substance containing no free-radical initiator in its Inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P - indicates a commenced Premanufacture Notice (PMN) substance.
- R - indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S - indicates a substance that is identified in a final Significant New Uses Rule.
- SP - indicates a substance that is identified in a proposed Significant New Uses Rule.
- T - indicates a substance that is the subject of a final Section 4 test rule under TSCA.
- UVCB Chemical Substances of Unknown or Variable Composition, Complex Reaction Products and Biological Materials
- XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
- Y1 - indicates a polymer that has a number-average molecular weight greater than 1,000 and that was exempt under the 1984 polymer exemption rule.
- Y2 - indicates a polymer that is a polyester and that was exempt under the 1984 polymer exemption rule.

Proposition 65 - Carcinogens (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Developmental Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 Label Warning:

This product contains no chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.



Mass RTK Substances (>1%):

Isopropyl Alcohol

New Jersey RTK Substances (>1%):

Isopropyl Alcohol

Pennsylvania RTK Substances (>1%):

Isopropyl Alcohol

OSHA Process Safety Management Standard Highly Hazardous Chemicals, Toxics and Reactives:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

US EPA List of Regulated Substances under the Risk Management Plan (RMP) Program:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

US EPA Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) under the Minimum Risk Exemption:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

U.S. - DEA List II or Essential Chemicals:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

U.S. - DEA - Exempt Chemical Mixtures - List 1 and 2:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

US DHS Chemical Facility Anti-Terrorism Standards (CFATS):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Section 16. Other Information



Revision Date

08/14/2024

DISCLAIMER OF RESPONSIBILITY

The information on this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume damage or expense arising out of or in any way responsibility and expressly disclaim liability for loss, connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this SDS information may not be applicable.

The full text of the phrases appearing in section 3 is:

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H336 May cause drowsiness and dizziness.

End of Document