

SAFETY DATA SHEET



Date issued : 01/17/2006

SDS number : 10616

Date revised : 09/21/2022

Revision number : 15

Isopropanol 70%

1. Identification

Product identifier: Isopropanol 70%

Product formulation name: IPA 70

Alternate product identifier(s): Isopropyl Alcohol 70%, IPA 70%, IPA 70% USP/NF Grade, Isopropyl Alcohol 70% Tech Grade

Manufacturer / Supplier

Tarr, LLC

P.O. Box 12570

Portland, OR 97212

Customer Service: 503-288-5294

Emergency telephone number (24 hour)

CHEMTREC (US Transportation) :(800) 424 - 9300

2. Hazard identification

Classification of the substance or mixture

Health hazards:

Eye Irritation, Category 2

Specific target organ toxicity - single exposure - central nervous system, Category 3

Physical hazards:

Flammable Liquids, Category 2

Label elements



Flame



Exclamation
mark

Signal word: DANGER

Hazard statement(s)

H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

Precautionary statement(s)

Prevention:

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P240: Ground and bond container and receiving equipment.

P243: Take action to prevent static discharges.

P242: Use non-sparking tools.

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P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P309+P311: IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

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

P304+P341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P337+P313: If eye irritation persists: Get medical advice/attention.

P370+P378: In case of fire: Use dry sand, dry chemical, or alcohol resistant foam to extinguish.

Storage:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233: Keep container tightly closed.

P102: Keep out of reach of children.

P235+P410: Keep cool. Protect from sunlight.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

Disposal:

P501: Dispose of contents/container to an approved waste disposal plant.

Emergency overview

Immediate concerns: DANGER! Highly flammable liquid and vapor. Harmful or fatal if swallowed. Vapor harmful. May cause central nervous system depression. May be irritating to eyes, skin, nose, throat and respiratory tract.

Potential health effects

Eye: Severely irritating to the eyes causing pain, redness, swelling and blurred vision.

Skin: Mildly irritating to the skin.

Ingestion: Irritating to the gastrointestinal tract, causing abdominal pain and vomiting, sometimes bloody. Ingestion may cause CNS depression, low blood pressure, rapid heart beat and liver damage.

Inhalation: May cause mild irritation to the nose, throat and respiratory tract and may result in central nervous system (CNS) depression.

Medical conditions aggravated: Preexisting diseases in or history of ailments involving skin, central nervous system, liver and kidney.

3. Composition/information on ingredients

Chemical name	Vol. %	CAS No.
Isopropyl Alcohol	~ 70	67-63-0
Water	~ 30	7732-18-5

4. First-aid measures

Eye: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

Skin: Flush skin with water while removing contaminated clothing. If irritation occurs, get medical attention. Do not

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reuse clothing or shoes until cleaned.

Ingestion: If swallowed, DO NOT induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

Inhalation: Move to fresh air. Treat symptomatically. Get medical attention if symptoms persist.

Most important symptoms and effects, both acute and delayed

Eye: Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision.

Inhalation: Respiratory irritation signs and symptoms may include a temporary burning sensation of the nose and throat, coughing, and/or difficulty breathing. Breathing of high vapor concentrations may cause central nervous system (CNS) depression resulting in dizziness, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and death.

5. Fire-fighting measures

Flammable class: Class IB flammable liquid.

Suitable extinguishing media: Use water fog, "alcohol" foam, dry chemical, or CO₂.

Hazardous combustion products: Carbon monoxide, carbon dioxide and unidentified organic compounds may be formed during combustion.

Explosion hazards: Danger! Flammable materials may release vapors that travel long distances, ignite and flash back. Containers may explode in a fire. Do not expose to heat, sparks, flame, or other sources of ignition. When handling, use non-sparking tools, ground and bond all containers.

Fire fighting procedures: WARNING! Flammable Liquid. Clear fire area of unprotected personnel. Do not enter confined fire space without full bunker gear, including a positive pressure NIOSH approved SCBA. Cool fire exposed containers with water.

6. Accidental release measures

Small spill: Eliminate all sources of ignition such as flares, flames (including pilot lights), and electrical sparks. Absorb liquid on vermiculite, floor absorbent or other absorbent material. Personal not wearing proper personal protective equipment should be excluded from area of spill.

Large spill: Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing personal protective equipment should be excluded from area of spill until clean-up has been completed. Shut off source of leak if safe to do so. Dike and contain spill. Prevent from entering drains, sewers, streams or other bodies of water. If runoff occurs, notify authorities as required. Remove with vacuum trucks or pump into clean storage/salvage vessels for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for proper disposal.

Environmental precautions

Water spill: Keep material out of storm sewers and ditches which lead to waterways.

General procedures: WARNING. Flammable. Ventilate area of leak or spill. Remove all sources of ignition. Clean-up personnel require protective clothing and respiratory protection from vapors. Only specially trained or qualified personnel should handle the emergency.

7. Handling and storage

General procedures: Keep away from heat, sparks, and flame. Surfaces that are hot may ignite even liquid product in the absence of sparks or flame. Extinguish pilot lights, cigarettes and turn off other sources of ignition prior to use and until all vapors are gone.

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Comments: KEEP OUT OF REACH OF CHILDREN! Empty containers retain product residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks static electricity, or other sources of ignition; they may explode and cause injury or death. Observe all federal, state, and local regulations and National Fire Protection Association (NFPA) Codes with pertain to the specific local conditions of stage and use, including OSHA 29 CFR 1910.106 and NFPA 30, 70, 77, and 497.

8. Exposure controls/personal protection**Exposure controls**

Control parameters				
Occupational exposure limit values				
Chemical name	Type		ppm	mg/m ³
Isopropyl Alcohol	OSHA PEL	TWA	400	980
		ACGIH TLV	TWA	200
		STEL	400	960
	Supplier OEL	TWA	NL ^[1]	NL ^[1]
		STEL	NL	NL

Footnotes:
1. NL = Not Listed

Appropriate engineering controls: Provide exhaust ventilation sufficient to keep the airborne concentration of this product below its exposure limits. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination.

Individual protection measures, such as personal protective equipment

Eye / face protection: Use chemical safety goggles and/or full face shield where splashing is possible. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work areas.

Skin protection - hand protection: Wear resistant gloves (consult your safety equipment supplier). To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

Respiratory protection: If exposure may or does exceed occupational exposure limits (Sec. 8) use a NIOSH approved respirator to prevent overexposure. In accord with 29 CFR 1910.134 use either an atmosphere-supplying respirator or an air-purifying respirator for organic vapors.

Skin protection - other: Where splashing is possible, full chemically resistant protective clothing (e.g., acid suit) and boots are required.

Occupational hygiene practices: Use good personal hygiene when handling this product. Wash hands after use, before eating, drinking, smoking, or using the toilet.

Other use precautions: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

9. Physical and chemical properties

Physical state: Liquid

Appearance: Clear

Color: Clear, colorless liquid.

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Odor: Slight sweet, Alcohol-like odor.

pH: Essentially neutral.

Freezing point: -89°C (-128°F)

Initial boiling point and boiling range: 83°C (181°F)

Flash point: 18°C (65°F) Closed Cup

Evaporation rate (n-butyl acetate = 1): ~ 3.0

Lower explosion limit / flammability limit: 2%

Upper explosion limit / flammability limit: 13%

Vapor pressure: 43 hPa at 20°C (68°F)

Relative vapor density: 2.07

Density: ~ 6.5 at (68°F)

Notes: LBS./gallon

Relative density: 0.7648 at 60 deg F

Solubility: Miscible

Auto-ignition temperature: ~ 425°C

10. Stability and reactivity

Dangerous polymerization: Will not occur.

Conditions to avoid: Avoid heat, sparks, flame and contact with strong oxidizing agents. Do not store or handle in aluminum equipment at temperatures above 120 deg. F.

Hazardous decomposition products: Carbon monoxide and unidentified organic compounds may be formed during combustion. There should be no decomposition if stored and applied as directed.

Incompatible materials: Acids and oxidizers.

11. Toxicological information**Acute toxicity**

Acute dermal toxicity LD₅₀: 12800 mg/kg (rabbit)

Acute oral toxicity LD₅₀: 5840 mg/kg (rat)

Acute inhalation toxicity LC₅₀: 37.5 mg/l (rat), 4 hour(s)

Serious eye damage / irritation: Causes serious eye irritation.

Germ cell mutagenicity: Mutagenicity: Ames Test; negative.

Carcinogenicity

Notes: This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP, or EPA.

Reproductive toxicity: No Data Available.

Aspiration hazard: No Data Available.

12. Ecological information**Aquatic toxicity, both acute and chronic**

96-hour LC₅₀: 9640 mg/L (Pimephales promelas)

Isopropanol 70**48-hour EC₅₀:** 13299 mg/l (Daphnia magna)**13. Disposal considerations**

Disposal methods: The preferred options for disposal are to send to licensed reclaimers, or to permitted incinerators. Any disposal practice must be in compliance with federal, state, and local regulations. Do not dump into sewers, ground, or any body of water.

Empty container: KEEP OUT OF REACH OF CHILDREN! Empty containers retain product residue and can be dangerous. Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Do not pressurize, cut weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks static electricity, or other sources of ignition.

RCRA/EPA waste information: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

14. Transport information**USA Department of Transport Regulations (DOT)****UN proper shipping name:** Isopropanol**Transport hazard class(es):** 3**UN number:** UN 1219**Packing group, if applicable:** II**NAERG:** 129**Hazard label:** Flammable liquid**15. Regulatory information****UNITED STATES****SARA Section 311/312 Hazard Categories**

311/312 Health hazards: This product should be reported as an immediate (acute) health hazard, delayed (chronic) health hazard, and a fire hazard.

EPCRA Section 313 Toxic Chemicals

Chemical name	Vol. %	CAS No.
Isopropyl Alcohol	~ 70	67-63-0

EPCRA Section 302 Extremely Hazardous Substances

EPCRA Status: To the best of our knowledge, this product is not listed as an extremely hazardous substance.

TSCA (The Toxic Substances Control Act)

Chemical name	CAS No.
Isopropyl Alcohol	67-63-0

TSCA Status: Listed.

General comments: The regulatory information is not intended to be comprehensive. Other regulations may apply to

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this material.

16. Other information

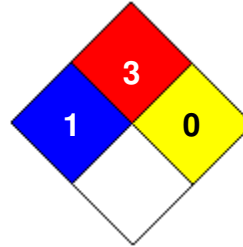
Prepared by: COMPLIANCE **Date revised:** 09/21/2022

Revision summary: This SDS replaces the 09/20/2022 SDS. Revised: **Section 2:** Classification of the substance or mixture, Label elements, Precautionary statement(s).

HMIS rating

Health	<input type="checkbox"/>	1
Flammability	<input type="checkbox"/>	3
Physical hazard	<input type="checkbox"/>	0
Personal protection	<input type="checkbox"/>	G

NFPA codes



NFPA 30 / 30B Storage Classification: These ratings are part of a specific hazard communication program and should be disregarded where individuals are not trained in the use of this hazard rating system. You should be familiar with the hazard communication programs applicable to your workplace.

Manufacturer disclaimer: The information contained herein is based on the data available to us and is believed to be accurate. However, Tarr Acquisition, LLC (Tarr, LLC) makes no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Tarr, LLC assumes no responsibility for injuries from the use of the product described herein.