



Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Isopropyl Alcohol 99%

30-5019

Section 1: Identification

Product Name Isopropyl Alcohol 99%
Commercial Name N/A
Product Use General use solvent
Restrictions On Use N/A

Product Code 30-5019

Company PCCA
9901 South Wilcrest
Houston, TX 77099
Phone: 1-800-331-2498
Fax: 1-800-874-5760

In case of emergency contact:
CHEMTREC (24hr) 1-800-424-9300

Section 2: Hazard(s) Identification

OSHA Haz Com: Eye irritation (Category 2) Flammable Liquids (Category 2) Specific target organ toxicity - single exposure (Category 3)
CFR 1910.1200 OSHA Hazards: Flammable liquid, Target Organ Effect, Irritant Target Organs: Cardiovascular system, Gastrointestinal tract, Kidney, Liver, Nerves

Signal Word DANGER

Hazard Statement(s) Highly flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness or dizziness.

Pictogram(s) or Symbol(s)



Precautionary Statement(s):

Prevention

P261 Avoid breathing dust/fumes/gas/mist/vapors. P240 Ground/bond container and receiving equipment. P210 Keep away from heat, sparks, open flames, and hot surfaces. No smoking. P233 Keep container tightly closed. P102 Keep out of reach of children. P243 Take precautionary measures against static discharge. P241 Use explosion-proof electrical, ventilating, and lighting equipment. P242 Use only non-sparking tools. P271 Use only outdoors or in a well-ventilated area. P264 Wash hands thoroughly after handling. P280 Wear protective gloves and eye and face protection.

Response

P312 Call a POISON CENTER or doctor/ physician if you feel unwell. P337 + P313 If eye irritation persists: Get medical attention. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention. P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P303 + P361 + P353 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P403 + P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.

Disposal

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

Section 3: Composition/Information on Ingredients

Substance/Mixture Substance
Components Isopropyl Alcohol
% By Weight 99%
CAS# 67-63-0
Molecular Weight N/A
Chemical Formula N/A
Synonym(s) Isopropanol; Isopropyl Alcohol; 2-Propanol; sec-propyl alcohol; dimethylcarbinol; sec-propanol; Rubbing alcohol; 1-Methylethanol; IPA 99%

Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Isopropyl Alcohol	67-63-0	100%	N/A	N/A



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Section 4: First-Aid Measures

Inhalation	Remove person to fresh air. If signs/symptoms continue, get medical attention. Give oxygen or artificial respiration as needed.
Skin Contact	Wash skin with soap and copious amounts of water. Seek medical attention
Eye Contact	Thoroughly flush eyes with large amounts of clean low-pressure water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation persists, seek medical attention
Ingestion	DO NOT induce vomiting. If vomiting does occur, have victim lean forward to prevent aspiration. Rinse mouth with water. Seek medical attention. Never give anything by mouth to an unconscious individual.
Symptoms/Effects	
Acute	N/A
Delayed	N/A

Immediate Medical Attention

Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

Unsuitable Extinguishing Media

N/A

Products of Combustion

Carbon oxides expected to be the primary hazardous combustion product

Firefighters Special Equipment and Precautions

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Keep unopened containers cool by spraying with water.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Do not inhale vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Environmental precautions: Stop leak. Contain spill if possible and safe to do so. Prevent product from entering drains. Methods and materials for containment and cleaning up: Contain spill, then collect with an electrically protected vacuum cleaner or by wet-brushing and put the material into a convenient waste disposal container. Keep container closed.

Section 7: Handling and Storage

Precautions for safe handling: Do not get on skin or in eyes. Do not inhale vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge. Conditions for safe storage, including any incompatibilities: Keep container tightly closed in a cool, dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section 8: Exposure Controls/Personal Protection

Exposure Limits	Component	Source	Type	Value	Isopropyl Alcohol	US (ACGIH) TWA	200 ppm
	Isopropyl Alcohol	US (ACGIH)	STEL	400 ppm	Isopropyl Alcohol	US (OSHA) TWA	400 ppm
Engineering Controls	General room or local exhaust ventilation is usually required to meet exposure limit(s). Electrical equipment should be grounded and conform to applicable electrical code.						



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Personal Protection

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Eye protection: Use chemical safety goggles and/or a full face shield where splashing is possible. Use equipment approved by appropriate government standards, such as NIOSH (US) or EN166 (EU) Maintain eye wash fountain and quick-drench facilities in work area. Skin and body protection: Wear impervious, flame retardant, antistatic protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Section 9: Physical and Chemical Properties

Appearance	Liquid. Colorless.		
Odor	alcohol-like		
Odor Threshold	N/A		
Melting Point	N/A	pH	N/A
Freezing Point	-89.5°C (-129.1 °F)	Vapor Pressure	43.2 hPa (32.4 mmHg) at 20.0 °C
Boiling Point/Range	83°C (181°F)	Vapor Density	2.1
Decomposition temperature	N/A	Viscosity	N/A
Partition Coefficient: n-octanol/water	log Pow: 0.05	Evaporation Rate	3.0
Flash Point	12°C (53°F) - Closed Cup	Autoignition temperature	399°C (750°F)
Flammability	N/A	Flammability or Explosive Limits:	
		Lower	12.7% (V)
		Upper	2.0% (V)

Solubility(ies)	completely water soluble
Other	Relative Density 0.785 g/cm3 at 25°C (77°F) Molecular Weight (ISOPROPYL ALCOHOL) 60.1 g/mol

Section 10: Stability and Reactivity

Reactivity	N/A
Chemical Stability	Stable under ordinary conditions of use and storage. Hygroscopic
Hazardous Polymerization	Vapors may form explosive mixture with air.
Conditions to Avoid	Heat, flames, and sparks. Extreme temperatures and direct sunlight
Incompatible Materials	Oxidizing agents, Acid anhydrides, Aluminium, Halogenated compounds, Acids
Hazardous Decomposition Products	Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section 11: Toxicological Information
RTECS NT8050000

Acute Toxicity

LC50 (vapor) Rat 19,000 ppm 8 hours LD50 (oral) Rat 4,396 mg/kg LD50 (skin) Rabbit 12,870 mg/kg

Skin Corrosion/Irritation

Eyes:Rabbit - Irritating to eyes - 24 hours, Eyes (ISOPROPANOL):Mildly irritating to the eye at an airborne concentration of 400 ppm, unpleasant at 800 ppm.Skin:Moderate skin irritant

Serious Eye Damage/Irritation

N/A

Respiratory or Skin Sensitization

N/A

Germ Cell Mutagenicity

N/A

Carcinogenicity

IARC: Group 3: Not classifiable as to its carcinogenicity to humans.ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive Toxicity

N/A

Routes of Entry

Eyes. Skin.



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Symptoms Related to Exposure

N/A

Potential Health Effects

N/A

Target Organ(s) Eyes Produces irritation, characterized by a burning sensation, redness, tearing, inflammation, and possible corneal damage.

Section 12: Ecological Information

Ecotoxicity

Ecotoxicity (aquatic and terrestrial, where available): Acute Fish Toxicity (ISOPROPANOL) LC50 / 96 hours Pimephales promelas: 9,640 mg/L Toxic to Daphnia and Other Aquatic Invertebrates EC50 / 24 h / Water Flea - 5,102 mg/L Toxicity to Aquatic Plants (ISOPROPANOL) EC50 / 72 hours Scenedesmus subspicatus > 1,000 mg/L

Persistence and Degradability

N/A

Bioaccumulative Potential

N/A

Mobility in Soil

N/A

Other Adverse Effects

N/A

Section 13: Disposal Considerations

Waste Disposal

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

Disposal of Container

N/A

Other Considerations

N/A

Section 14: Transport Information

DOT Classification

UN number UN1219 UN proper shipping name Isopropanol Transport hazard class(es) 3 Packing group (if applicable) II IMDG UN-Number: UN1219 Class: 3 Packing Group: II EMS-No: F-E, S-D Proper shipping name: ISOPROPANOL Marine pollutant: No IATA UN-Number: UN1219 Class: 3 Packing Group: II Proper shipping name: Isopropanol

Section 15: Regulatory Information

Regulations

OSHA Hazards Flammable liquid, Target Organ Effect, Irritant All ingredients are on the following inventories or are exempted from listing Country Notification Australia AICS Canada DSL China IECS European Union EINECS Japan ENCS/ISHL Korea ECL New Zealand NZIoC Philippines PICCS United States of America TSCA SARA 302 Components SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. Product Information: 203.740.3471 Emergency Assistance (CHEMTREC): 1.800.424.9300 (USA) +1.703.527.3887 (INT) SDS: 312 Revision Date: 04.19.17 Revision Number: 4.0 Initials: EF Page 10 of 11 SARA 313 Components The following components are subject to reporting levels established by SARA title III, Section 313: ISOPROPYL ALCOHOL (CAS# 67-63-0) Revision date: 1987-01-01. SARA 311/312 Hazards Acute Health Hazard Chronic Health Hazard Fire Hazard CERCLA No chemicals in this material with known CAS numbers are subject to the reporting requirements of CERCLA Massachusetts Right To Know Components Isopropyl Alcohol CAS-No. 67-63-0 Revision Date 1987-01-01 Pennsylvania Right To Know Components Isopropyl Alcohol CAS-No. 67-63-0 Revision Date 1987-01-01 New Jersey Right To Know Components Isopropyl Alcohol CAS-No. 67-63-0 Revision Date 1987-01-01 California Prop 65 Components This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.



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Other
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Section 16: Other Information

ield Global USA, Inc. believes that the information on this SDS was obtained from reliable sources. However, the information is provided without any warranty, expressed 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, Greenfield Global USA, Inc. does not assume responsibility and expressly disclaims liability for loss, damage, or expense arising out of or in any way 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. Information is correct to the best of our knowledge at the date of the SDS