

MSDS

Material Safety Data Sheet

Section 1: Chemical Product and Company Identification

Catalog Number: 4209, 4210, 4210.4, 4211, 4211.80, 4211.91, I-170, I-171, I050800, R4211900, SI050800	
Product Identity: ISOPROPANOL, >= 70% (v/v) Solutions	
Manufacturer's Name: RICCA CHEMICAL COMPANY LLC	Emergency Contact(24 hr) -- CHEMTREC® Domestic: 800-424-9300 International: 703-527-3887
CAGE Code: 4TCW6, 0V553, 4XZQ2	
Address: 448 West Fork Dr Arlington, TX 76012	Telephone Number For Information: 817-461-5601
Date Prepared: 12/16/98	Revision: 13 Last Revised: 03/14/2013 Date Printed: 01/21/2015 12:29:22 pm

Section 2. Composition/Information on Ingredients

Component	CAS Registry #	Concentration	ACGIH TLV	OSHA PEL
Isopropyl Alcohol (Isopropanol, 2-Propanol)	67-63-0	> = 70% (v/v)	400 ppm 983 mg/m3	400 ppm 980 mg/m3
Water, Deionized	7732-18-5	Balance	Not Available Not Available	Not Available Not Available

Section 3: Hazard Identification

Emergency Overview: Flammable liquid. Contact may cause dryness and cracking of the skin. May cause irritation of the respiratory system. Causes irritation to the eyes. If ingested, give large quantity of water and induce vomiting. Call a physician. Wash areas of contact with water.

Target Organs: eyes, skin, respiratory system, central nervous system.

Eye Contact: May cause irritation with burning and stinging with possible damage to the cornea and conjunctiva.

Inhalation: May cause irritation of the eyes, nose, throat, upper respiratory tract and associated mucosa. Exposure to high concentrations has a narcotic effect.

Skin Contact: Results in drying and cracking which can lead to secondary infections and dermatitis.

Ingestion: May cause nausea, vomiting, diarrhea and cramps. The single lethal dose for a human of Isopropanol is about 250 mL (8 oz.).

Chronic Effects/Carcinogenicity: None

IARC - Isopropyl Alcohol (Isopropanol, 2-Propanol) is unclassifiable as to carcinogenicity to humans. Isopropyl Alcohol (Isopropanol, 2-Propanol) is unclassifiable as to carcinogenicity to humans.

NTP - No.

OSHA - No.

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Reproductive Information: Reproductive effects cited in 'Registry of Toxic Effects of Chemical Substances' for Isopropyl Alcohol (Isopropanol, 2-Propanol). Reproductive effects cited in 'Registry of Toxic Effects of Chemical Substances' for Isopropyl Alcohol (Isopropanol, 2-Propanol).
Teratology (Birth Defect) Information: Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Isopropyl Alcohol (Isopropanol, 2-Propanol). Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Isopropyl Alcohol (Isopropanol, 2-Propanol).

Section 4: First Aid Measures - In all cases, seek qualified evaluation.

Eye Contact: Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops.

Inhalation: Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

Skin Contact: Wash areas of contact with soap and water for at least 15 minutes. Call a physician if irritation develops.

Ingestion: Dilute immediately with water or milk. Induce vomiting. Call a physician.

Section 5: Fire Fighting Measures

Flash Point: App. 13°C (55°F) (100%) - 18°C (64°F) (70%)

Method Used: CC (IPA)

LFL: 2.0% (100% IPA)

UFL: 12.7% (100% IPA)

Extinguishing Media: Use water spray, dry chemical, alcohol foam, or carbon dioxide for extinguishing the surrounding fire. Water spray can be used to dilute spills to non-flammable mixtures.

Fire & Explosion Hazards: Vapors may explode if ignited in an enclosed area.

Fire Fighting Instructions: Vapors can flow along surfaces to distant ignition source and flash back. Use water spray to blanket fire, cool fire exposed containers, and to flush non-ignited spills or vapors away from fire.

Fire Fighting Equipment: Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Section 6: Accidental Release Measures

Remove all sources of ignition. Contain spill. Do not flush to sewer. Absorb with suitable inert material (vermiculite, dry sand, etc) and place in a chemical waste container for proper disposal in an approved waste disposal facility. Ventilate area of spill. Have extinguishing agent available in case of fire. Use non-sparking tools and equipment. Dispose of in accordance with local regulations.

Section 7. Handling and Storage

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage. Store in secure, flammable storage area away from all sources of ignition. Empty containers may be hazardous since they retain product residues.

Safety Storage Code: Flammable

Section 8: Exposure Control/Personal Protection

Engineering Controls: A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limit.

Respiratory Protection: Normal room ventilation is adequate. If the exposure limit is exceeded, a full facepiece respirator with organic vapor cartridge may be worn.

Skin Protection: Chemical resistant gloves.

Eye Protection: Safety glasses or goggles.

Section 9: Physical and Chemical Properties

Appearance: Clear, Colorless Liquid

Odor: Characteristic Alcohol

Solubility in Water: Infinite

Specific Gravity: Approximately 0.8

pH: Not Available.

Boiling Point(°C): Approximately 82

Melting Point(°C): Approximately -88

Vapor Pressure: app. 33 at 20°C (IPA)

Section 10: Stability and Reactivity

Chemical Stability: Stable under normal conditions of use and storage.

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Incompatibility: Strong oxidizing agents such as Nitrates, Perchlorates or Sulfuric Acid, heat, sparks, open flame. Will attack some forms of plastics, rubber and coatings. May react with metallic aluminum and generate hydrogen gas.

Hazardous Decomposition Products: Acrid and irritating fumes, including toxic oxides of carbon, when heated to decomposition.

Hazardous Polymerization: Will not occur.

Section 11. Toxicological Information

LD50, Oral, Rat: (Isopropanol) 5045 mg/kg, behavioral effects noted. LC50, Inhalation, Rat: (Isopropanol) 16000 ppm/8hrs. No toxic effect noted. Investigated as a tumorigen, mutagen, and reproductive effector.

Section 12. Ecological Information

Ecotoxicological Information: Acute toxic effects may include the death of animals, birds, or fish, and death or low growth rate in plants. Acute effects are seen 2 to 4 days after exposure to Isopropanol. Chronic toxic effects may include shortened life span, reproductive problems, lower fertility, and changes in appearance or behavior in exposed animals. These effects can be seen long after first exposure (s) to toxic chemicals. Insufficient data are available to evaluate or predict the short and long term effects of Isopropanol to aquatic life, plants, birds, or land animals.

Chemical Fate Information: Isopropanol is slightly persistent in water, with a half-life of between 2 to 20 days. This material is not expected to significantly bioaccumulate. When released into the soil or into water, this material is expected to quickly evaporate.

Section 13. Disposal Considerations

Do not flush to sewer. Absorb with suitable inert material (vermiculite, dry sand, earth) and place in a chemical waste container for proper disposal in an approved waste disposal facility for incineration in a chemical incinerator equipped with scrubber and afterburner. Ventilate area of spill. Have extinguishing agent available in case of fire. Eliminate all sources of ignition. Use non-sparking tools and equipment. Always dispose of in accordance with local, state and federal regulations.

Section 14. Transport Information

Part Numbers: 4210-1, 4210-16, 4210-1G, 4210-1SC, 4210-2.5, 4210-32, 4210-5, 4210-55, 4210-5HP, 4210.4-5, 4211.80-1, 4211.91-1, 4211.91-8, I-170 20-LT, I-170 200-LT, I-170 4-LT, I-170 500ML, I-170 LT, I-171 4-LT, R4211900-1A, R4211900-20F, R4211900-4A, R4211900-500A, SI050800-20E1, SI050800-20F, SI050800-4A

D.O.T. Shipping Name: Isopropanol Solution

D.O.T. Hazard Class: 3

U.N. / N.A. Number: UN1219

Packing Group: II

D.O.T. Label: 3



Section 15. Regulatory Information (Not meant to be all inclusive - selected regulation represented)

OSHA Status: These items meet the OSHA Hazard Communication Standard (29 CFR 1910.1200) definition of a hazardous material.

TSCA Status: All components of this solution are listed on the TSCA Inventory or are mixtures (hydrates) of items listed on the TSCA Inventory.

Sara Title III:

Section 302 Extremely Hazardous Substances: Not Applicable.

Section 311/312 Hazardous Categories: Acute, Chronic, Fire: Yes; Pressure, Reactivity: No

Section 313 Toxic Chemicals: Not Applicable.

California: None Reported.

Pennsylvania: Isopropyl Alcohol (Isopropanol, 2-Propanol) is listed as an Environmental Hazard on the state's Hazardous Substances List. Isopropyl Alcohol (Isopropanol, 2-Propanol) is listed as an Environmental Hazard on the state's Hazardous Substances List.

RCRA Status: Not Applicable.

CERCLA Reportable Quantity: None Reported.

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WHMIS: B-2: Flammable and Combustible Material. Flammable Liquid. D-2B: Poisonous and Infectious Material. Materials causing other toxic effects - Toxic Material.

**Section 16. Other Information**

NFPA Ratings:

Health: 1 Flammability: 3 Reactivity: 0 Special Notice Key:None

HMIS Ratings:

Health: 1 Flammability: 3 Reactivity: 0 Protective Equipment:B (Protective Eyewear, Gloves)

- Rev 1, 12-10-99: (Section 1) Revised emergency telephone number to CHEMTREC® 800-424-9300.
Rev 2, 9-7-2000: Reformatted from WordPerfect® to Microsoft Word®; (Section 7) added storage code; (Section 15) added Florida and Pennsylvania citations.
Rev 3, 10-09-2001: Reformatted to electronic data format.
Rev 4, 02-06-2002: (Section 1) corrected title from <=.
Rev 5, 03-19-2002: (Section 1) added catalog numbers 4211.80 and 4211.91.
Rev 6, 10-01-2002: (Section 1) added Solutions Plus catalog number I050800.
Rev 7, 01-16-2006: (Section 1) added Red Bird catalog number I-171.
Rev 8, 03-21-2006: (Section 5) added flash point range.
Rev 9, 05-16-2006: (Section 1) added catalog number R4211900.
Rev 10, 11-15-2006: (Section 15) added D2B to WHMIS information.
Rev 11, 05-13-2009: (Section 1) added catalog number 4210.4.
Rev 12, 05-22-2012: Reviewed and approved for distribution.
Rev 13, 03-14-2013: (Section 5) added F values to flashpoint.

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.