RICCA CHEMICAL COMPANY®

# Safety Data Sheet

421016

Classified According to OSHA Hazard Communication Standard (HCS)

## SECTION 1: Identification

### 1.1. Product Identifier

**Trade Name or Designation:** Isopropyl Alcohol, 70% (v/v)

**Product Number:** 4210

**Other Identifying Product Numbers:** 4210-1, 4210-16, 4210-1G, 4210-1SC, 4210-2.5, 4210-32, 4210-5, 4210-55, 4210-5HP

### 1.2. Recommended Use and Restrictions on Use

General Laboratory Reagent

### 1.3. Details of the Supplier of the Safety Data Sheet

**Company:** Ricca Chemical Company
**Address:** 448 West Fork Drive

Arlington, TX 76012 USA

**Telephone:** 888-467-4222

### 1.4. Emergency Telephone Number (24 hours)

| | |
|---|---|
| CHEMTREC (USA) | 800-424-9300 |
| CHEMTREC (International) | 1+ 703-527-3887 |

## SECTION 2: Hazard(s) Identification

### 2.1. Classification of the Substance or Mixture

For the full text of the Hazard and Precautionary Statements listed below, see Section 16.

| Hazard Class | Category | Hazard Statements: | Precautionary Statements: |
|---|---|---|---|
| Eye Damage / Irritation | Category 2 | H319 | P264, P280, P305+P351+P338, P337+P313 |
| Flammable Liquids | Category 2 | H225 | P210, P233, P240, P241, P242, P243, P280, P303+P361+P353, P370+P378, P403+P235, P501 |

# Safety Data Sheet

## 2.2. GHS Label Elements

**Pictograms:**



**Signal Word:** **Danger**

**Hazard Statements:**

| Hazard Number | Hazard Statement |
|---|---|
| H225 | Highly flammable liquid and vapor. |
| H319 | Causes serious eye irritation. |

**Precautionary Statements:**

| Precautionary Number | Precautionary Statement |
|---|---|
| P210 | Keep away from heat, sparks and open flame. No smoking. |
| P233 | Keep container tightly closed. |
| P240 | Ground container and receiving equipment. |
| P241 | Use explosion-proof equipment. |
| P242 | Use only non-sparking tools. |
| P243 | Take precautionary measures against static discharge. |
| P264 | Wash arms, hands and face thoroughly after handling. |
| P280 | Wear protective gloves and eye protection. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P337+P313 | If eye irritation persists: Get medical attention. |
| P370+P378 | In case of fire: Use dry chemical, foam or carbon dioxide to extinguish. |
| P403+P235 | Store in a well-ventilated place. Keep cool. |
| P501 | Dispose of contents in accordance with local, state, federal and international regulations. |

## 2.4. Hazards not Otherwise Classified or Covered by GHS

Data not available.

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## SECTION 3: Composition / Information on Ingredients

### 3.1. Components of Substance or Mixture

| Chemical Name | Formula | Molecular Weight | CAS Number | Weight% |
|---|---|---|---|---|
| Isopropyl Alcohol | $CH_3CHOHCH_3$ | 60.09 g/mol | 67-63-0 | 62.32 |
| Water | $H_2O$ | 18.01 g/mol | 7732-18-5 | 37.68 |

## SECTION 4: First-Aid Measures

### 4.1. General First Aid Information

**Eye Contact:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. May cause irritation with burning and stinging with possible damage to the cornea and conjunctiva.

**Inhalation:** Not expected to require first aid. If necessary, remove to fresh air.

**Skin Contact:** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Results in drying and cracking which can lead to secondary infections and dermatitis.

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

### 4.2. Most Important Symptoms and Effects, Acute and Delayed

Causes serious eye irritation. 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. EYE CONTACT: May cause irritation with burning and stinging with possible damage to the cornea and conjunctiva. SKIN CONTACT: Results in drying and cracking which can lead to secondary infections and dermatitis.

### 4.3. Medical Attention or Special Treatment Needed

Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops. Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Wash areas of contact with soap and water for at least 15 minutes. Call a physician if irritation develops. Dilute immediately with water or milk. Induce vomiting. Call a physician.

## SECTION 5: Fire-Fighting Measures

### 5.1. Extinguishing Media

In case of fire: Use dry chemical, foam or carbon dioxide to extinguish. Carbon dioxide, dry chemical, alcohol foam

### 5.2. Specific Hazards Arising from the Substance or Mixture

Highly flammable liquid and vapor. Vapors may explode if ignited in an enclosed area.

### 5.3. Special Protective Equipment for Firefighters

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

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## SECTION 6: Accidental Release Measures

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Ground container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves and eye protection.

### 6.2. Cleanup and Containment Methods and Materials

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

### 7.1. Precautions for Safe Handling and Storage Conditions

Store in a well-ventilated place. Keep cool. 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.

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## SECTION 8: Exposure Controls / Personal Protection

### 8.1 Control Parameters

| Chemical Name | Limit Type | Country | Exposure Limit | Information Source |
|---|---|---|---|---|
| Isopropyl Alcohol (67-63-0) | TWA | USA | 400 ppm TWA; 980 mg/m³ TWA | U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs) |
| Isopropyl Alcohol (67-63-0) | TLV-STEL | USA | 400 ppm STEL | ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL) |
| Isopropyl Alcohol (67-63-0) | TLV-TWA | USA | 200 ppm TWA | ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA) |
| Isopropyl Alcohol (67-63-0) | TLV-TWA | USA | "200 ppm TWA" As 2-Propanol [67-63-0] | ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA) |
| Isopropyl Alcohol (67-63-0) | TWA | USA | "400 ppm TWA; 980 mg/m³ TWA" As Isopropyl alcohol [67-63-0] | U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs) |
| Isopropyl Alcohol (67-63-0) | TLV-STEL | USA | "400 ppm STEL" As 2-Propanol [67-63-0] | ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL) |
| Isopropyl Alcohol (67-63-0) | TLV-STEL | USA | "400 ppm STEL" As 2-Propanol [67-63-0] | ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL) |
| Isopropyl Alcohol (67-63-0) | TLV-TWA | USA | "200 ppm TWA" As 2-Propanol [67-63-0] | ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA) |
| Isopropyl Alcohol (67-63-0) | TWA | USA | "400 ppm TWA; 980 mg/m³ TWA" As Isopropyl alcohol [67-63-0] | U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs) |

### 8.2. Exposure Controls

**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:** Wear protective gloves and eye protection. Chemical resistant gloves.

**Eye Protection:** Wear protective gloves and eye protection. Safety glasses or goggles.

### 8.3. Personal Protective Equipment

Wear protective gloves and eye protection. Normal room ventilation is adequate. If the exposure limit is exceeded, a full facepiece respirator with organic vapor cartridge may be worn. Chemical resistant gloves. Safety glasses or goggles.

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## SECTION 9: Physical and Chemical Properties

### 9.1. Basic Physical and Chemical Properties

**Appearance:** Colorless liquid
**Physical State:** Liquid
**Odor:** Alcohol-like
**Odor Threshold:** Data not available.
**pH:** Data not available.
**Melting/Freezing Point:** Approximately 0°C
**Initial Boiling Point/Range:** Approximately 82°C - Approximately 82°C
**Flash Point:** Approximately 13°C (55°F) (100%) - 18°C (64°F) (70%)
**Evaporation Rate:** Data not available.
**Flammability:** Data not available.
**Flammability/Explosive Limits:** Data not available.
**Vapor Pressure:** Data not available.
**Vapor Density:** Data not available.
**Relative Density:** 0.88
**Solubility:** Miscible
**Partition Coefficient:** Data not available.
**Auto-Ignition Temperature:** Data not available.
**Decomposition Temperature:** Data not available.
**Viscosity:** Data not available.
**Explosive Properties:** Data not available.
**Oxidizing Properties:** Data not available.

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity and Chemical Stability

Stable under normal conditions of use and storage.

### 10.2. Possibility of Hazardous Reactions

Data not available.

### 10.3. Conditions to Avoid and Incompatible Materials

Keep away from heat, sparks and open flame. No smoking. Keep container tightly closed. 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.

### 10.4. Hazardous Decomposition Products

Will not occur.

## SECTION 11: Toxicological Information

### 11.1. Information on Toxicological Effects

**Acute Toxicity - Oral Exposure:**

Not applicable.

**Acute Toxicity - Dermal Exposure:**

Not applicable.

**Acute Toxicity - Inhalation Exposure:**

Not applicable.

**Acute Toxicity - Other 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.

**Skin Corrosion and Irritation:**

Not applicable.

**Serious Eye Damage and Irritation:**

Causes serious eye irritation. Wash arms, hands and face thoroughly after handling. Wear protective gloves and eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

**Respiratory Sensitization:**

Not applicable.

**Skin Sensitization:**

Not applicable.

**Germ Cell Mutagenicity:**

Not applicable.

**Carcinogenicity:**

Not applicable.

**Reproductive Toxicity:**

Not applicable.

**Specific Target Organ Toxicity from Single Exposure:**

Not applicable.

**Specific Target Organ Toxicity from Repeated Exposure:**

Not applicable.

**Aspiration Hazard:**

Not applicable.

**Additional Toxicology Information:**

Data not available.

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## SECTION 12: Ecological Information

### 12.1. Ecotoxicity

Not applicable.

### 12.2. Persistence and Degradability

Data not available.

### 12.3. Bioaccumulative Potential

Data not available.

### 12.4. Mobility in Soil

Data not available.

### 12.5. Other Adverse Ecological Effects

Data not available.

## SECTION 13: Disposal Considerations

### 13.1. Waste Treatment Methods

Data not available.

## SECTION 14: Transportation Information

### 14.1. Transportation by Land-Department of Transportation (DOT, United States of America)

**Sizes:** 1 L, 4 L, 10 L, 20 L, 55 Gal, 500 mL

**UN Number:** UN1219

**Proper Shipping Name:** Isopropanol Solution

**Hazard Class:** 3

**Packing Group:** II

**Hazard Label(s):**



### 14.2. Transportation by Air - International Air Transport Association (IATA)

**Sizes:** 1 L, 4 L, 10 L, 20 L, 55 Gal, 500 mL

**UN Number:** UN1219

**Proper Shipping Name:** Isopropanol Solution

**Hazard Class:** 3

**Packing Group:** II

**Hazard Label(s):**




### 14.3 Transportation of Dangerous Goods (TDG, Canada)

**Sizes:** 1 L, 4 L, 10 L, 20 L, 55 Gal, 500 mL

**UN Number:** UN1219

**Proper Shipping Name:** ISOPROPANOL SOLUTION

**Hazard Class:** 3

**Packing Group:** II

**Hazard Label(s):**




## SECTION 15: Regulatory Information

### 15.1. Occupational Safety and Health Administration (OSHA) Hazards

Not listed.

### 15.2. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances

Not listed.

### 15.3. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals

Not listed.

### 15.4. Superfund Amendments and Reauthorization Act (SARA) 313 Toxic Release Inventory (TRI)

Isopropyl Alcohol (CAS # 67-63-0): "1.0 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)" As Isopropyl alcohol [67-63-0]

Isopropyl Alcohol (CAS # 67-63-0): 1.0 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)

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## 15.5. Massachusetts Right-to-Know Substance List

Isopropyl Alcohol (CAS # 67-63-0): "Present" As 2-Propanol [67-63-0]
Isopropyl Alcohol (CAS # 67-63-0): Present

## 15.6. Pennsylvania Right-to-Know Hazardous Substances

Isopropyl Alcohol (CAS # 67-63-0): "Environmental hazard" As 2-Propanol [67-63-0]
Isopropyl Alcohol (CAS # 67-63-0): "Special hazardous substance" As Isopropyl alcohol manufacture (strong-acid process) [RR-00068-0]
Isopropyl Alcohol (CAS # 67-63-0): Environmental hazard
Isopropyl Alcohol (CAS # 67-63-0): Special hazardous substance
Water (CAS # 7732-18-5): "Present" As Ethyl alcohol and water [RR-00802-6]
Water (CAS # 7732-18-5): Present

## 15.7. New Jersey Worker and Community Right-to-Know Components

Isopropyl Alcohol (CAS # 67-63-0): "flammable - third degree" As Isopropyl alcohol [67-63-0]
Isopropyl Alcohol (CAS # 67-63-0): "SN 1076 500 lb TPQ (manufacturing - strong acid process only)" As Isopropyl alcohol [67-63-0]
Isopropyl Alcohol (CAS # 67-63-0): "sn 1076" As Isopropyl alcohol [67-63-0]
Isopropyl Alcohol (CAS # 67-63-0): flammable - third degree
Isopropyl Alcohol (CAS # 67-63-0): sn 1076
Isopropyl Alcohol (CAS # 67-63-0): SN 1076 500 lb TPQ (manufacturing - strong acid process only)

## 15.8. California Proposition 65

Not listed.

## 15.9. Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

Isopropyl Alcohol (CAS # 67-63-0): "Present" As Alcohols, C1-3 [68475-56-9] (NDSL)
Isopropyl Alcohol (CAS # 67-63-0): "Present" As Isopropyl alcohol [67-63-0] (DSL)
Isopropyl Alcohol (CAS # 67-63-0): Present (DSL)
Isopropyl Alcohol (CAS # 67-63-0): Present (NDSL)
Water (CAS # 7732-18-5): "Present" As Water [7732-18-5] (DSL)
Water (CAS # 7732-18-5): Present (DSL)

## 15.10. United States of America Toxic Substances Control Act (TSCA) List

**All components of this solution are listed as active on the TSCA Inventory or are mixtures (hydrates) of active items listed on the TSCA Inventory.**

Isopropyl Alcohol (CAS # 67-63-0): "Present (ACTIVE)" As 2-Propanol [67-63-0]
Isopropyl Alcohol (CAS # 67-63-0): Present (ACTIVE)
Water (CAS # 7732-18-5): "Present [XU] (ACTIVE)" As Water [7732-18-5]
Water (CAS # 7732-18-5): Present [XU] (ACTIVE)

### 15.11. European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP)

Isopropyl Alcohol (CAS # 67-63-0): "200-661-7" As Propan-2-ol [67-63-0]
Isopropyl Alcohol (CAS # 67-63-0): 200-661-7
Isopropyl Alcohol (CAS # 67-63-0): 270-649-4
Water (CAS # 7732-18-5): "231-791-2" As Water [7732-18-5]
Water (CAS # 7732-18-5): 231-791-2

## SECTION 16: Other Information

### 16.1. Full Text of Hazard Statements and Precautionary Statements

Highly flammable liquid and vapor. Causes serious eye irritation.

Keep away from heat, sparks and open flame. No smoking. Keep container tightly closed. Ground container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash arms, hands and face thoroughly after handling. Wear protective gloves and eye protection.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. In case of fire: Use dry chemical, foam or carbon dioxide to extinguish.

Store in a well-ventilated place. Keep cool.

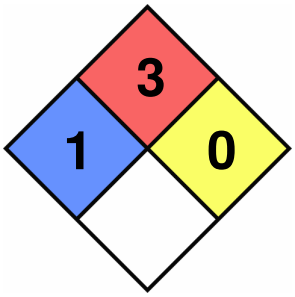
Dispose of contents in accordance with local, state, federal and international regulations.

### 16.2. Miscellaneous Hazard Classes

**Canadian Carcinogenicity Hazard Class:** Not Applicable.
**Physical Hazards Not Otherwise Classified (PHNOC):** Not Applicable.
**Health Hazards Not Otherwise Classified (HHNOC):** Not Applicable.
**Biohazardous Infectious Materials Hazard Class:** Not Applicable.

### 16.3. National Fire Protection Association (NFPA) Rating

**Health:** 1
**Flammability:** 3
**Reactivity:** 0
**Special Hazard:**



# Safety Data Sheet

### 16.4. Document Revision

**Last Revision Date:** 2025-04-02

## DISCLAIMER

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.