



Humco Holding Group, Inc.  
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24-Hour Emergency Number (CHEMTREC)  
USA- 800-424-9300  
All non-emergency calls should be directed to  
Customer Service at 800-662-3435

**NAME: ISOPROPYL RUBBING ALCOHOL 70%, USP SDS NO. 1249**

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Isopropyl Alcohol 70% USP

**Synonyms:** 2-Propanol Water; Isopropyl alcohol; sec-propyl alcohol; dimethylcarbinol; sec-propanol, IPA 70%

**Recommended Use:** First aid antiseptic, massage, rubbing, sponge bath

**Manufacturer by:** Humco Holding Group, Inc.

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### 2. HAZARD IDENTIFICATION

<b>Pictogram:</b>	
<b>Classification:</b>	Flammable liquid; Category 2 Acute toxicity; Category 5
<b>Signal Word:</b>	DANGER
<b>Hazard Statements:</b>	Highly flammable liquid and vapor. May be harmful if swallowed. May be harmful if inhaled.

### 3. COMPOSITION / INGREDIENTS

CHEMICAL NAME	CAS#
ISOPROPYL ALCOHOL	64-63-0
PURIFIED WATER	7732-18-5

The exact percentage has been withheld as a trade secret

#### 4. FIRST-AID MEASURES

ROUTE	COMMON SYMPTOMS	FIRST AID
<b>Inhalation</b>	Exposure to vapors may cause irritation to the respiratory tract. Headache and drowsiness may occur. May have anesthetic and central nervous system (CNS).	Remove source of contamination or move victim to fresh air. If affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
<b>Ingestion</b>	Vomiting, Nausea, diarrhea, drowsiness, Headache, may cause bronchopneumonia or pulmonary edema.	Do NOT induce vomiting unless directed to so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
<b>Skin</b>	May cause dermal irritation	If irritation occurs, wash with disinfectant soap and water. If persist, get medical attention.
<b>Eyes</b>	Irritation, eye injury	Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention.

#### 5. FIRE-FIGHTING MEASURES

<b>Flash Point:</b>	18.3°C (64.9°F) - CLOSED CUP
<b>Auto Ignition:</b>	Lowest known: 399 °C (750 °F) (For IPA 99%)
<b>Extinguishing Media:</b>	Use methods appropriate for the surrounding fire. Consider water spray or fog, carbon dioxide, dry chemical powder, or alcohol resistant foam. Cool all affected containers with plenty of water.
<b>Products of Combustion:</b>	May explode when heated. Upon combustion this product, it emits carbon oxides (CO & CO2)
<b>Fire Fighting Equipment and Procedures:</b>	Wear protective clothing and equipment suitable for the surrounding fire. Small fire: Dry chemical powder can be used. Large Fire: Alcohol foam, water spray or fog. Cool containing vessels with water get in order to prevent pressure build-up, auto-ignition or explosion.

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions:</b>	Read entire label before using and follow all label directions. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Beware of vapors accumulating to form explosive concentrations.
<b>Environmental Precautions:</b>	Prevent discharge to open waters, and sewage
<b>Method of Containment:</b>	Contain spill, collect an electrically protected vacuum clear or by wet brushing. Absorb with DRY earth, sand or other non-combustible material.
<b>Method for Clean-Up:</b>	Ventilate area of spill or leak. Pump liquid to salvage tank. Mop-up and containerize in approved chemical waste container. Wash spill area with water.

## 7. HANDLING AND STORAGE

<b>Handling:</b>	Avoid contact with skin and eyes. Avoid inhalation of vapor, spray, gas, or mist. Stay away from ignition source. Wear suitable respiratory equipment. Wear proper clothing. Do not consume food, drink or smoke while handling this product.
<b>Storage:</b>	Keep container tightly closed and in a dry, cool, and well ventilated place. Opened containers must be resealed and kept upright to prevent leakage. Keep away from all ignition source (sparks or flame), oxidizing agents, and acids.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

<b>Engineering Controls:</b>	Handle as per good industrial hygiene and safety practice. Use explosion proof ventilations as required to control vapor concentration. Ensure that eyewash station and safety showers are in adequate location.
<b>Personal Protective Equipment (PPE)</b>	
<b>Eye/Face Protection:</b>	Use appropriate face shield and approved goggles.
<b>Skin Protection:</b>	Handle with approved impervious clothing and gloves. Flame retardant antistatic protective clothing is recommended to protect from body contact.
<b>Respiratory Protection</b>	Use either an atmosphere supplying respirator or an air purifying respirator for organic vapors. If permissible exposure level is exceeded, use NIOSH approved respirator.
<b>General Hygiene Considerations:</b>	Wash hands after use. Eye wash fountains and safety showers are generally required in adequate location for emergency use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Colorless, clear liquid	<b>Upper/Lower Flammability:</b>	12.7% (V)/2%(V)- for Isopropyl Alcohol 99%
<b>Odor:</b>	Characteristic, alcohol like	<b>Vapor Pressure (mmHg)</b>	32.4 mmHg at 20 °C. For Isopropyl Alcohol 99%
<b>Odor Threshold:</b>	Not determined	<b>Vapor Density (air = 1)</b>	2.1 (for IPA 99%)
<b>pH:</b>	Not determined	<b>Relative Density (H<sub>2</sub>O=1):</b>	0.88
<b>Melting point /Freezing Point:</b>	-90 °C (-130 °F) – For Isopropyl alcohol 99%	<b>Solubility (in water):</b>	Soluble
<b>Boiling point/range:</b>	83 °C (181°F) - for Isopropyl alcohol 99%	<b>Partition coefficient: n-octanol/water:</b>	Log pow: 0.05 (for IPA 99%)
<b>Flash point</b>	18.3°C (64.9°F) - CLOSED CUP	<b>Auto-ignition temperature</b>	399 °C (750°F) – For IPA 99%
<b>Evaporation rate (butyl acetate = 1)</b>	Not determined	<b>Decomposition Temperature:</b>	Not determined
<b>Flammability:</b>	Flammable	<b>Viscosity</b>	Not determined

## 10. STABILITY AND RACTIVITY

<b>Reactivity:</b>	Not reactive
<b>Chemical Stability:</b>	Stable under recommended storage conditions.
<b>Possibility of Hazardous reactions:</b>	Vapors may form explosive mixture with air.
<b>Conditions to Avoid:</b>	Heat, sparks, open flame, extreme temperature, direct sunlight
<b>Incompatible materials:</b>	Oxidizing agents, acid anhydrides, Aluminum, Halogenated compounds, acids
<b>Hazardous Decomposition Products:</b>	Carbon Oxides (CO, CO <sub>2</sub> )

## 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity:</b>	Not determined.
<b>Skin irritation:</b>	Not determined
<b>Eye contact damage:</b>	Not determined
<b>Respiratory damage:</b>	Not determined
<b>Ingestion overdose:</b>	Not determined
<b>Delayed, immediate, or chronic effects from short- and long-term exposure</b>	Not determined
<b>LD50</b>	(Oral) – For Rat – 5045 mg/kg; (Dermal) – For Rabbit – 12,800 mg/kg – for 99% IPA
<b>Symptoms associated with exposure:</b>	May cause skin and eye irritation.

<b>Carcinogenicity:</b>	
<b>OSHA:</b>	Not listed
<b>NTP:</b>	Not listed
<b>IARC:</b>	Not listed

## 12. ECOLOGICAL INFORMATION

<b>Acute or chronic aquatic toxicity:</b>	Fish (Isopropanol) - LC50/96 hours; Toxic to Daphnia and other aquatic invertebrates – EC50/24 h/Water Flea – 5,102 mg/L.
<b>Chemical degradation:</b>	Not determined.
<b>Biodegradation:</b>	Not determined.
<b>Bioaccumulation potential</b>	Not determined.
<b>Adsorption studies or leaching studies:</b>	Not determined.
<b>Other adverse effects</b>	Not determined.

## 13. DISPOSAL CONSIDERATIONS

Dispose in accordance with federal, state and local laws and regulations. Avoid release into environment.

## 14. TRANSPORT INFORMATION

<b>DOT Hazard Classification:</b>	Class 3: Flammable Liquid
<b>UN number:</b>	1219
<b>UN proper shipping name:</b>	Isopropanol
<b>Transport hazard class(es):</b>	3
<b>Packing group number:</b>	II
<b>Environmental hazards:</b>	Not applicable
<b>Special precautions:</b>	Keep away from heat, sparks, and ignition sources.

## 15. REGULATORY INFORMATION

Not determined

## 16. OTHER INFORMATION

The information in this SDS is considered current and reliable. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal are beyond Humco's control, it is the responsibility of the user to determine safe conditions for use and to assume liability for loss,

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