SAFETY DATA SHEETS

This SDS packet was issued with item:

078013472

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078436525

SAFETY DATA SHEET

Humco Holding Group, Inc.
7400 Alumax Dr
Texarkana TX 75501 USA
800-662-3435
cs@humco.com
www.humco.com

24-Hour Emergency Number (CHEMTREC)
USA- 800-424-9300
International – 703-527-3887

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

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2. HAZARD IDENTIFICATION

Pictogram:	
Classification:	Flammable liquid; Category 2 Acute toxicity; Category 5
Signal Word:	DANGER
Hazard Statements:	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
Inhalation	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.
Ingestion	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.
Skin	May cause dermal irritation	If irritation occurs, wash with disinfectant soap and water. If persist, get medical attention.
Eyes	Irritation, eye injury	Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention.

5. FIRE-FIGHTING MEASURES

Flash Point:	18.3°C (64.9°F) - CLOSED CUP
Auto Ignition:	Lowest known: 399 °C (750 °F) (For IPA 99%)
Extinguishing Media:	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.
Products of Combustion:	May explode when heated. Upon combustion this product, it emits carbon oxides (CO & CO2)
Fire Fighting Equipment and Procedures:	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

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Personal Precautions:	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.
Environmental Precautions:	Prevent discharge to open waters, and sewage
Method of Containment:	Contain spill, collect an electrically protected vacuum clear or by wet brushing. Absorb with DRY earth, sand or other non-combustible material.
Method for Clean-Up:	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

Handling:	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.
Storage:	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

Engineering Controls:	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.
Personal Protective Equipment (PPE)	
Eye/Face Protection:	Use appropriate face shield and approved goggles.
Skin Protection:	Handle with approved impervious clothing and gloves. Flame retardant antistatic protective clothing is recommended to protect from body contact.
Respiratory Protection	Use either an atmosphere supplying respirator or an air purifying respirator for organic vapors. If permissible exposure level is exceeded, use NIOSH approved respirator.
General Hygiene Considerations:	Wash hands after use. Eye wash fountains and safety showers are generally required in adequate location for emergency use.

9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance:	Colorless, clear liquid	**Upper/Lower Flammability:**	12.7% (V)/2%(V)- for Isopropyl Alcohol 99%
Odor:	Characteristic, alcohol like	**Vapor Pressure (mmHg)**	32.4 mmHg at 20 °C. For Isopropyl Alcohol 99%
Odor Threshold:	Not determined	**Vapor Density (air = 1)**	2.1 (for IPA 99%)
pH:	Not determined	**Relative Density (H_2O=1):**	0.88
Melting point /Freezing Point:	-90 °C (-130 °F) – For Isopropyl alcohol 99%	**Solubility (in water):**	Soluble
Boiling point/range:	83 °C (181°F) - for Isopropyl alcohol 99%	**Partition coefficient: n-octanol/water:**	Log pow: 0.05 (for IPA 99%)
Flash point	18.3°C (64.9°F) - CLOSED CUP	**Auto-ignition temperature**	399 °C (750°F) – For IPA 99%
Evaporation rate (butyl acetate = 1)	Not determined	**Decomposition Temperature:**	Not determined
Flammability:	Flammable	**Viscosity**	Not determined

10. STABILITY AND RACTIVITY

Reactivity:	Not reactive
Chemical Stability:	Stable under recommended storage conditions.
Possibility of Hazardous reactions:	Vapors may form explosive mixture with air.
Conditions to Avoid:	Heat, sparks, open flame, extreme temperature, direct sunlight
Incompatible materials:	Oxidizing agents, acid anhydrides, Aluminum, Halogenated compounds, acids
Hazardous Decomposition Products:	Carbon Oxides (CO, CO_2)

11. TOXICOLOGICAL INFORMATION

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

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Carcinogenicity:	
OSHA:	Not listed
NTP:	Not listed
IARC:	Not listed

12. ECOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

DOT Hazard Classification:	Class 3: Flammable Liquid
UN number:	1219
UN proper shipping name:	Isopropanol
Transport hazard class(es):	3
Packing group number:	II
Environmental hazards:	Not applicable
Special precautions:	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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damage, or expenses arising from improper use. No warranty expressed or implied regarding the product described herein will be created by or inferred from any statement or omission. Various agencies may have specific regulations concerning the transportation, handling, storage, use or disposal of this product which may not be reflected in the SDS. The user should review these regulations to ensure full compliance.

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