

SAFETY DATA SHEET: ISOPROPYL ALCOHOL, 70%

1. IDENTIFICATION

Product Name: ISOPROPYL ALCOHOL, 70%
Synonyms: 2-Propanol 70%; Isopropyl rubbing alcohol; Isopropanol 70%
Formula and Formula Weight: CH₃CHOHCH₃ 60.10
Integra numbers beginning with: I860.50
Recommended Use: Industrial use
Restrictions on Use: No information available

INTEGRA Chemical Company **24 Hour Emergency Response: CHEMTREC 800-424-9300 (Outside USA 703-527-3887)**

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2. HAZARDS IDENTIFICATION

OSHA Classification:	Hazard Category:	Hazard Statement:
Eye Damage/Irritation	2A	Causes serious eye irritation.
Specific Target Organ Toxicity (single exposure)	3	May cause drowsiness or dizziness.
Flammable Liquids	2	Highly flammable liquid and vapor.

Signal Word: DANGER



Precautionary Statements

Prevention:

Keep away from heat, sparks, open flames, hot surfaces. – No smoking.
Keep container tightly closed.
Ground, bond container and receiving equipment.
Use explosion-proof electrical, ventilating, lighting, equipment.
Take precautionary measures against static discharge and use only non-sparking tools.
Avoid breathing fume, gas, mist, vapors, spray.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves, eye protection, face protection.

Response

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water, shower.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Call a poison center, doctor if you feel unwell.
If eye irritation persists: Get medical advice, attention.

Storage

Store in a well ventilated place. Keep container tightly closed. Keep cool.
Store locked up.

Disposal

Dispose of contents, container in accordance with all governmental regulations.

Hazards Not Otherwise Classified: No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Synonyms	CAS #	% Volume
Isopropyl alcohol	Isopropanol; IPA; 2-Propanol	00067-63-0	70
Water		07732-18-5	30

4. FIRST AID MEASURES

Inhalation: Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult administer oxygen. Seek medical attention.

Eye Contact: Flush eyes with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Seek immediate medical attention.

Skin Contact: Remove contaminated clothing. Flush skin with plenty of water. Seek medical attention if irritation develops.

Ingestion: Rinse mouth. Give victim large amounts of water and induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention.

Additional notes: Symptoms and effects include respiratory tract irritation, drowsiness, dizziness, defatting of skin.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Carbon dioxide, dry chemical or alcohol foam. Water may be ineffective.

Special Equipment and Precautions: Use water to cool nearby containers and structures. Wear full protective equipment, including suitable respiratory protection.

Specific Hazards: Vapors may flow along surfaces to distant ignition sources and flash back. Vapors may form explosive mixtures with air.

Hazardous combustion products: Oxides of carbon.

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures: Remove all potential ignition sources. Prevent spread of spill. Wear full protective equipment including suitable respiratory protection. Absorb with sand or inert material. Place into suitable container for disposal. Flush spill area with water.

7. HANDLING AND STORAGE

Incompatible Materials: Incompatible with strong oxidizers. Aldehydes, halogen compounds, reactive metals.

Storage and Handling: Store locked up in a cool, dry, well-ventilated flammable liquids storage area or cabinet away from incompatible materials. Keep away from heat and ignition sources. Keep containers tightly closed and protect them from physical damage. Bond and ground containers when transferring liquid. Use only non-sparking tools and take precautionary measures against static discharge. No smoking.

Keep away from heat, sparks, open flames, hot surfaces. – No smoking.

Keep container tightly closed.

Ground, bond container and receiving equipment.

Use explosion-proof electrical, ventilating, lighting, equipment.

Take precautionary measures against static discharge and use only non-sparking tools.

Avoid breathing fume, gas, mist, vapors, spray.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves, eye protection, face protection.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

OSHA & ACGIH Exposure Limits:

Isopropyl alcohol	OSHA TWA: 400 ppm; 980 mg/m ³ ACGIH TWA: 200 ppm; 491 mg/m ³ ACGIH STEL: 400 ppm; 984 mg/m ³
Water	None identified

Engineering Controls: Use general or local exhaust ventilation to meet TLV and PEL requirements.

Respiratory Protection: Respiratory protection required if airborne concentrations exceed PEL or TLV. Use a NIOSH approved full facepiece chemical cartridge respirator with an organic vapor cartridge.

Skin/Eye Protective Equipment: Safety goggles, protective clothing and gloves appropriate for the risk of exposure.

Facilities storing or utilizing this material should have readily accessible eyewash stations and safety showers. Select respirators and other safety equipment in accordance with regulations and based upon the particular conditions of use and risk of exposure. Always use safe chemical-handling and good industrial hygiene practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear colorless liquid.

Odor: Medicinal alcoholic odor

Odor Threshold: No information available

pH: No information available

Melting/Freezing Point: -89 °C

Initial Boiling Point and Boiling Range: 83 °C

Flash Point: 18.3 °C

Evaporation Rate: Not available

Flammability: Flammable

Flammable or Explosive Limits (% by volume in air) Upper: 12.7 Lower: 2

Vapor Pressure: 32.4 mm Hg @20°C

Vapor Density: 2.1

Relative Density: 0.88 Water=1

Solubility: Miscible with water.

Partition Coefficient: n-octanol/water Not available

Auto-Ignition Temperature: 399 °C

Decomposition Temperature: Not available

Viscosity: Not available

10. STABILITY AND REACTIVITY

Reactivity: No information available

Stability: Stable

Possibility of Hazardous Reactions: Hazardous polymerization will not occur
Conditions to Avoid: Heat, sparks and open flame.
Incompatibles: Incompatible with strong oxidizers. Aldehydes, halogen compounds, reactive metals.
Decomposition Products: Oxides of carbon.

11. TOXICOLOGICAL INFORMATION

Effects of Over Exposure:

Inhalation: Inhalation may irritate the nose, throat and upper respiratory tract. May cause drowsiness and dizziness. Inhalation of high concentrations may cause central nervous system effects, nausea, headache, dizziness, unconsciousness and coma. May cause narcotic effects. Very high concentrations may lead to pulmonary edema and unconsciousness.

Skin Contact: May cause skin irritation. Prolonged contact may cause dermatitis.

Eye Contact: May irritate or burn the eyes.

Ingestion: May be harmful if swallowed. Causes gastrointestinal irritation with nausea, vomiting, stomach cramps, diarrhea. May cause kidney damage. May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, drowsiness, nausea. Advanced stages may cause collapse, unconsciousness, coma, death.

Chronic Effects: Defatting of the skin; liver and kidney damage; irritation of mucous membranes, skin, respiratory system.

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

Additional Effects: May aggravate pre-existing skin disorders, eye disorders, respiratory system disease

Reproductive Effects: No information available

Carcinogenicity:

Isopropyl alcohol is listed by the IARC as Group 3, Unclassifiable.

Toxicity Data:

Isopropyl alcohol	LC50 (inhalation, rat)	16000 ppm/8H
	LD50 (oral, rat)	5000 mg/kg
	LD50 (skin, rabbit)	12800 mg/kg
Water	No information available	

12. ECOLOGICAL INFORMATION

	<u>Aquatic Toxicity Data:</u>	<u>Terrestrial Toxicity Data:</u>
Isopropyl alcohol	LC50 Pimephales promelas: 9640 mg/L -	No information available
Water	No information available	No information available

Persistence and degradability: No information available

Bioaccumulative potential: No information available

Mobility in soil: No information available

Other adverse effects: No information available

13. DISPOSAL CONSIDERATIONS

Disposal Procedures: Dispose of material and containers in accordance with all local, state and federal regulations.

14. TRANSPORTATION INFORMATION

This product is a regulated material for domestic ground transportation, per CFR Title 49.

UN Number: UN1219

Proper Shipping Name: Isopropanol

Packing Group: II

Hazard Class: 3

Environmental hazards: No information available

Special precautions: No information available

Bulk transport: No information available

15. REGULATORY INFORMATION

Isopropyl alcohol is listed in the TSCA inventory and in SARA 313.

16. OTHER INFORMATION

OSHA SDS #: 25797 rev 101 3/27/2015

NE = Not established, NA = Not applicable or Not available

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***** END OF SDS *****