

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: ISOPROPYL ALCOHOL 70%

Description: Isopropanol 70%

Product Code: 3859

Suggested Use: Solvent

Restrictions on Use: N/A

Supplier: Norman, Fox & Co.
14970 Don Julian
City of Industry, CA 91746

Telephone: 1-323-973-4900 or 1-800-632-1777

Fax: 1-323-973-4874

Emergency Phone: CHEMTREC 1-800-424-9300
International 1-703-527-3887

2. HAZARDS IDENTIFICATION**Classification**

GHS Classification: Eye Irritation (Category 2A)
Flammable Liquids (Category 2)
Specific Target Organ Toxicity – Single Exposure (Category 3)

GHS Label Elements

Pictogram:



Signal Word:

Danger

Hazard Statements:

H225: Highly flammable liquid and vapor
H319: Causes serious eye irritation
H336: May cause drowsiness or dizziness

Precautionary Statements:

P102: Keep out of reach of children.
P210: Keep away from heat, sparks, open flames, and hot surfaces. No smoking.
P233: Keep container tightly closed.
P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical, ventilating, and lighting equipment.
P242: Use only non-sparking tools.
P261: Avoid breathing fumes/gas/mist/vapors.
P264: Wash hands thoroughly after handling.
P271: Use only outdoors in a well-ventilated area.
P280: Wear protective gloves and eye and face protection.
P303+P361+P353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.

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P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.
 P312: Call a POISON CENTER or doctor/physician if you feel unwell.
 P370+P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
 P403+P233+P235: Store in well ventilated place. Keep container tightly closed. Keep cool.
 P405: Store locked up.
 P501: Dispose of all contents and container to an approved waste disposal plant.

HMIS Classification:	Health Hazard:	1
	Flammability:	3
	Physical Hazards:	0
NFPA Rating:	Health Hazard:	1
	Fire:	3
	Reactivity Hazard:	0

Potential Health Effects

Inhalation:	Can be harmful if inhaled. Can cause respiratory tract irritation. Vapors can cause drowsiness and dizziness.
Skin:	Can cause skin irritation.
Eyes:	Causes serious eye irritation.
Ingestion:	May be irritating to the mouth, throat, and stomach. Do not ingest.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS Number</u>	<u>Concentration</u>
Isopropyl Alcohol	67-63-0	70%
Water	7732-18-5	30%

Synonyms: IPA; Isopropanol; 2-Propanol; Rubbing Alcohol

4. FIRST AID MEASURES

If Inhaled:	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician if symptoms are experienced.
Skin Contact:	Flush skin with plenty of water. Remove contaminated clothing and shoes. If irritation persists, consult a physician.
Eye Contact:	Flush eyes with plenty of water for at least 15 minutes. Remove contact lenses if able to do so. Get medical attention.
If Ingested:	Do not induce vomiting unless instructed to do so by a physician. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIREFIGHTING MEASURES

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Flammability Overview:	Flammable liquid and vapor. May produce floating fire hazard. Vapors may flash ignite from an ignition source. Use with caution.
Flash Point:	18.3°C (64.9°F)
Extinguishing Media:	Use water-spray, alcohol-resistant foam, dry chemical, or carbon dioxide. Cool all affected containers with flooding quantities of water.
Special Protective Equipment for Firefighters:	Wear a self-contained breathing apparatus (SCBA) for fighting large fires.
Hazardous Combustion Products:	Hazardous decomposition products under fire conditions: Carbon oxides.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Use personal protective equipment. Avoid breathing vapors, mist, or gas. Always ensure adequate ventilation. No action should be taken involving any personal risk or without suitable training. Evacuate unnecessary and unprotected personnel to safe areas away from the spill.
Environmental Precautions:	If safe to do so, avoid the dispersal of spilled material and contact with soil, waterways, drains, and sewers. Inform the relevant authorities if the product has caused environmental pollution. Collect spillage.
Containment and Clean Up:	If safe to do so, stop the leak or spill. Prevent entry into sewers, water courses, basements, and confined areas. Spilled material may pose a flammability threat. Only properly trained and outfitted personnel should be involved in the clean-up. Collect spilled material with a non-sparking, grounded vacuum pump. Put material in a proper container and dispose of as hazardous waste via a licensed waste disposal contractor. If assistance is needed call CHEMTREC or emergency services.

7. HANDLING AND STORAGE

Safe Handling:	Use personal protective equipment. Avoid breathing vapors, mist, or gas. Always ensure adequate ventilation.
Safe Storage:	Keep containers tightly closed in a cool, dry, and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store away from incompatible materials and all ignition sources.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Component	CAS Number	Exposure Limit	Basis
Isopropyl Alcohol	67-63-0	500 ppm	OSHA STEL
		400 ppm	OSHA TWA
		400 ppm	ACGIH STEL
		200 ppm	ACGIH TWA

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Personal Protective Equipment

Eye Protection: Tightly fitting safety goggles or safety glasses should be sufficient. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH. Have eye-wash stations available where eye contact can occur.

Hand Protection: Handle with chemical-resistant gloves. Gloves must be inspected prior to use. Dispose of contaminated gloves. Wash and dry hands after use.

Skin Protection: Wear long sleeves, a chemical apron, or other protective clothing to prevent skin contact. Safety showers should be located in the areas where skin contact can occur.

Respiratory Protection: Always ensure adequate ventilation. Where risk assessment shows air-purifying respirators are appropriate, use a NIOSH-approved full-face respirator with appropriate cartridges. Respiratory protection may be needed for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA 29 CFR 1910.134.

General Controls: Always ensure adequate ventilation and that working areas contain safety showers and eye wash stations. Handle material in accordance with good industrial hygiene and safety practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Color: Clear, Colorless

Odor: Rubbing Alcohol

Odor Threshold: N/A

pH: N/A

Melting/Freezing Point: -90°C (-130°F) for IPA 99%

Boiling Point: 83°C (181°F) for IPA 99%

Flash Point: 18.3°C (64.9°F)

Evaporation Rate: N/A

Flammability (solid, gas): Flammable Liquid

Flammability/Explosion Limits: 2-12.7% (V) for IPA 99%

Vapor Pressure @ 20°C: 32.4 mmHg

Vapor Density: 2.1 for IPA 99%

Specific Gravity: 0.87

Density: 7.25 lbs/gal

Solubility in Water: Soluble

Partition Coefficient: Log Pow = 0.05 for IPA 99%

Autoignition Temperature: 399°C (750°F) for IPA 99%

Decomposition Temperature: N/A

Viscosity: <10 cPs

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under recommended storage conditions.

Conditions and Materials to Avoid: Heat, flames, sparks, and other ignition sources. Extreme temperatures and direct sunlight. Oxidizing agents, Aluminum, Halogenated Compounds, Strong Acids.

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Hazardous Decomposition Products:

Hazardous decomposition products under fire conditions: Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component	CAS Number	Test	Toxicity
Isopropyl Alcohol	67-63-0	Oral LD50 (Rat)	5045 mg/kg
		Dermal LD50 (Rabbit)	12800 mg/kg
		Inhalation LC50 (Rat)	16000 mg/kg (8hrs)

Potential Health Effects

Inhalation: Can be harmful if inhaled. Can cause respiratory tract irritation. Vapors can cause drowsiness and dizziness.

Skin: Can cause skin irritation.

Eyes: Causes serious eye irritation.

Ingestion: May be irritating to the mouth, throat, and stomach. Do not ingest.

Signs and Symptoms of Exposure: Irritation
Redness
Watering Eyes
Drowsiness
Dizziness

Chronic Effects of Long-term Exposure: No data available.

Carcinogenicity: No known significant effects or critical hazards.

12. ECOLOGICAL INFORMATION

Acute Ecotoxicity

Component	CAS Number	Organism	Ecotoxicity
Isopropyl Alcohol	67-63-0	Pimephales promelas	96 hr LC50 = 9640 mg/L
		Water Flea	24 hr EC50 = 5102 mg/L
		Desmodesmus subspicatus	72 hr EC50 = >2000 mg/L

Ecological Effects

Persistence and Degradability: No data available.

Bioaccumulation Potential: No data available.

Mobility in Soil: No data available.

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Other Adverse Effects: No data available.

13. DISPOSAL CONSIDERATIONS

Disposal: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor who is to burn the material in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable.

Contaminated Packaging: Contaminated packaging should be treated like the product as hazardous waste. Contaminated packaging should be disposed in accordance with all local, state, and federal regulations. Regulations vary by region.

14. TRANSPORT INFORMATION**DOT Information**

Proper Shipping Name: Isopropanol
UN Number: UN1219
Hazard Class: 3
Packing Group: PGII

Reportable Quantity (RQ): N/A

Marine Pollutant: No

Note:

15. REGULATORY INFORMATION**US Federal**

SARA 302 Components: None Listed
SARA 311/312 Hazards: Acute Health Hazard, Chronic Health Hazard, Fire Hazard
SARA 313 Components: No reporting required

TSCA Inventory: All components listed or exempted.

European Union

EC Inventory: Isopropyl Alcohol(EINECS 200-661-7)

State Regulations

CA Prop 65: None Listed

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SDS Version:	1.0
Revision Date:	03/23/2015
Supersedes:	New to GHS

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For product information or to re-order, call Norman, Fox & Co. at 323-973-4900.