# NORMAN, FOX & CO. @FFDD

# **ISOPROPANOL 99% TECH**

## SAFETY DATA SHEET

Version 1.0 Effective Date: 05/31/15

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** 

**ISOPROPANOL 99% TECH** 

Description:

Isopropyl Alcohol (IPA)

Product Code: Suggested Use: Restrictions on Use: 1489

Solvent 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:** 

Flammable Liquid (Category 3)
Serious Eye Irritation (Category 2A)

STOT-SE Narcotic Effects (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:** 

P210: Keep away from heat/sparks/open flames/hot surfaces. - No Smoking.

P240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical/ventilating/lighting/equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P261: Avoid breathing fumes, mist, vapors, or spray. P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/ protective clothing/ eye protection/ face protection. P304+P340: IF INHALED: Remove person to fresh air and keep 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.

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P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P370+P378: In case of fire: Use dry chemical, foam, carbon dioxide, water spray/fog to

extinguish.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P501: Dispose of contents and container in accordance with all local, regional, national,

and international regulations.

HMIS Classification:

Health Hazard:

1

Flammability: Physical Hazards: 3 0

Health Hazard:

1

Fire:

3

Reactivity Hazard:

#### **Potential Health Effects**

Inhalation:

NFPA Rating:

Inhalation may cause respiratory tract irritation or central nervous system depression.

Skin:

Eves:

Can cause irritation and drying of skin. Contact can cause serious eye irritation or damage. Avoid contact.

Ingestion:

Harmful if swallowed. Possible aspiration hazard. Do not ingest.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component

**CAS Number** 

Concentration

Isopropanol

67-63-0

Synonyms:

IPA; Isopropyl Alcohol; Propan-2-ol; 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. Immediately call a doctor or physician.

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

Flammability Overview:

Highly flammable liquid and vapor.

Flash Point:

12°C (54°F)

Extinguishing Media:

Use water-spray, alcohol-resistant foam, dry chemical, or carbon dioxide. Alcohol-

resistant foam is recommended for large fires.

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Special Protective Equipment for

Firefighters:

For large fires: Wear a self-contained breathing apparatus pressure demand (NIOSH approved or equivalent) and full protective gear. Fight fires from a safe distance or

protected areas.

**Special Hazards:** 

Sealed containers can explode in the heat of a fire. Vapors can travel a long distance to

ignition sources and ignite.

**Hazardous Combustion Products:** 

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. Product may be harmful to the environment. Collect spillage.

Containment and Clean Up:

If safe to do so, stop the leak or spill and move containers away from the spill area. Prevent entry into sewers, waterways, and confined areas. Contain and collect spilled material with non-combustible, absorbent material. Dispose via a licensed waste disposal contractor. Contaminated absorbent material may pose the same physical hazards as the product. If assistance is needed call CHEMTREC or emergency services.

### 7. HANDLING AND STORAGE

Safe Handling:

Use personal protective equipment. Keep away from heat/sparks/open flames/hot surfaces. Be sure to ground containers and receiving equipment. Use explosion-proof and non-sparking equipment while handling. Take precautions against static discharge to avoid ignition. Avoid breathing vapors, mist, or gas. Always ensure adequate ventilation. No smoking, eating, or drinking when using this product. Handle in a manner consistent with good industrial hygiene practices.

Safe Storage:

Keep containers tightly closed in a cool, dry, well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store away

from incompatible materials.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Exposure Limits**

Component	CAS Number	Exposure Limit	Basis
Isopropanol	67-63-0	400 ppm	OSHA PEL
		200 ppm	ACGIH TLV (TWA)

## **Personal Protective Equipment**

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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 appropriate chemical-resistant

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 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. Be sure to ground containers and receiving equipment. Use explosionproof and non-sparking equipment while handling. Take precautions against static

discharge to avoid ignition.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** 

Liquid

Appearance:

Colorless

Odor:

Characteristic, Ethanol-like

Odor Threshold:

N/A N/A

:Ha

-89.5°C (-129°F)

Melting/Freezing Point: **Initial Boiling Point:** 

82°C (180°F)

Flash Point:

12°C (54°F)

**Evaporation Rate:** 

N/A

N/A

Flammability (solid, gas): Flammability/Explosion Limits:

2-12 % vol

Vapor Pressure @ 38°C:

32 mmHg

Vapor Density:

2 (air=1)

Specific Gravity:

0.785

Density:

6.55 lbs/gal

Solubility in Water:

Soluble N/A

Partition Coefficient: **Autoignition Temperature:** 

427°C (797°F)

**Decomposition Temperature:** 

N/A

Viscosity:

<10 cPs

### 10. STABILITY AND REACTIVITY

Chemical Stability:

Stable under recommended storage conditions.

Conditions and Materials to

Avoid:

Avoid heat, fire, open flames, direct light, and ignition sources. Avoid strong oxidizing

agents.

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Hazardous Decomposition

In fire conditions: Carbon Oxides

Products:

### 11. TOXICOLOGICAL INFORMATION

### **Acute Toxicity**

Component	CAS Number	Test	Toxicity
Isopropanol	67-63-0	Oral LD50 (Rat)	5045 mg/kg
		Dermal LD50 (Rabbit)	>12000 mg/kg
		Inhalation LC50 (Rat)	30 mg/l (4hr)

#### **Potential Health Effects**

Inhalation:

Ingestion:

Inhalation may cause respiratory tract irritation or central nervous system depression.

Skin:

Can cause irritation and drying of skin.

Eyes:

Contact can cause serious eye irritation or damage. Avoid contact. Harmful if swallowed. Possible aspiration hazard. Do not ingest.

Signs and Symptoms of Exposure:

Irritation

Watering Eyes

**Drowsiness/Dizziness Light Headedness** 

Chronic Effects of Long-term

Exposure:

No known significant effects or critical hazards.

Carcinogenicity:

No known significant effects or critical hazards.

Mutagenicity:

No known significant effects or critical hazards.

### 12. ECOLOGICAL INFORMATION

### **Acute Ecotoxicity**

Component	CAS Number	Organism	Ecotoxicity
Isopropanol	67-63-0	Rasbora heteromorpha	96 hr LC50 > 4000 mg/l

### **Ecological Effects**

Persistence and Degradability:

No specific data available

**Bioaccumulation Potential:** 

Not expected to bioaccumulate.

**Mobility in Soil:** 

No specific data available.

Other Adverse Effects:

Although not expected to be a significant threat to the environment, the product should be carefully disposed of. Prevent run-off to sewers, drains, and waterways.

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13. DISPOSAL CONSIDERATIONS

Disposal:

The generation of waste should be avoided or minimized wherever possible. Material should be disposed of in accordance with all local, state, and federal regulations. Regulations vary by region. Avoid release into the soil, sewers, drains, and other

waterways.

Contaminated Packaging:

Waste packaging should be recycled or reused whenever possible. If recycling is not feasible, contaminated packaging should be disposed of in accordance with all local, state, and federal regulations. Regulations vary by region.

14. TRANSPORT INFORMATION

**DOT Information** 

Proper Shipping Name:

UN Number:

Hazard Class:

Isopropanol

UN1219

3, Flammable Liquid

Packing Group:

Reportable Quantity (RQ):

N/A

11

Marine Pollutant:

No

Note:

Regulated for ground transportation in bulk and non-bulk containers.

15. REGULATORY INFORMATION

**US Federal** 

SARA 302 Components:

None Listed

SARA 311/312 Hazards:

Acute Health Hazard, Fire Hazard

SARA 313 Components:

Isopropanol (CAS 67-63-0)

TSCA Inventory:

All components listed or exempted.

**European Union** 

EC Inventory:

EINECS 2200-661-7

**State Regulations** 

CA Prop 65:

None Listed

**16. OTHER INFORMATION** 

SDS Version:

1.0

**Revision Date:** 

05/31/2015

Supersedes:

New to GHS

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The information contained in this document was carefully compiled and is believed to be accurate. The information represents the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. However, it does not represent any guarantee of the properties of the product. Norman, Fox & Co. shall not be held liable for any damages resulting from handling or from contact with the above product. It is the responsibility of the purchaser to determine the suitability of the product for their particular purposes. Nothing contained herein shall be construed to be a recommendation to use, or as a license to operate under, or to infringe any existing patents.

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

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