



To Our Customers:

The attached Safety Data Sheet (SDS) was prepared by the vendor of the product you purchased through one of our divisions. We used the manufacturer's electronic document directly or scanned a paper copy and generated a file for our automated SDS delivery system.

All statements, technical information, and recommendations contained therein are solely that of the manufacturer of the product. We at Zep Inc. did not verify the accuracy and completeness of the statements and do not warrant or guarantee the information. We provide vendor SDSs to assist our customers in their compliance efforts. The attached document is in compliance with one of the respective country regulatory requirements noted below:

The OSHA Hazard Communication Standard (in the United States)  
The Hazardous Products Regulations (in Canada)

We made every effort to deliver all of the information prepared by the manufacturer. We cannot anticipate all conditions under which this information will be used. If you have any questions about the statements on the SDS, please contact the company shown on the document.

Zep Inc. assumes no liability or responsibility for loss or damage resulting from the improper use or handling of this product, from incompatible product combinations, or from the failure to follow instructions, warnings, and advisories in the manufacturer's product label and Safety Data Sheet.

Sincerely,

Product Stewardship Team  
Zep Inc.

## SAFETY DATA SHEET



Phoenix Chemical Co. Inc.  
202 Gee Rd.  
Calhoun, GA 30701

Phone: (706) 602-8844  
Fax: (706) 602-7969

### Section 1. Identification of the Substance or Mixture and of the Supplier

**Product Name** IPA 70%  
**Chemical Name** Isopropanol  
**Product Use** Chemical intermediate  
**Emergency Telephone Number**  
Chemtel: (800) 255-3924

### Section 2. Hazards Identification

#### Emergency Overview

#### GHS Classification

Eye Irritation: Category 2A  
Flammable Liquids: Category 2  
Specific Target Organ Toxicity: Category 3 (Central nervous system)

#### GHS Label Elements

#### Pictogram(s)



#### Signal Word

Danger

#### Hazard Statement(s)

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

#### Precautionary Statement(s)

P210: Keep away from heat  
P220: Keep/Store away from combustible materials  
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  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P301 + P330 + P331: IF SWALLOWED: rinse mouth. Do not induce vomiting.  
P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse with water/shower.  
P304 + P340 + P310: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.  
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P404: Store in a closed container.  
P501: Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified or not covered by GHS

None

HMIS Identification: Health, Flammability, Reactivity, Contact

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### Section 3. Composition/Information on Ingredients

<u>Name of Hazardous Component/Composition</u>	<u>CAS Number</u>	<u>% by Weight</u>
Isopropanol	67-63-0	70%

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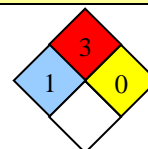
Product: IPA 70%

### Section 4. First Aid Measures

<b>Eye Contact</b>	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for 15 minutes. Seek medical attention if irritation develops.
<b>Skin Contact</b>	Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Seek medical attention if irritation develops.
<b>Inhalation</b>	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Seek medical attention if irritation develops.
<b>Ingestion</b>	Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek medical attention.

### Section 5. Fire Fighting Measures

#### National Fire Protection Agency (NFPA)



#### Fire Extinguishing Media

CO<sub>2</sub>, water, foam, and dry chemical spray

#### Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full faceplate operated in the pressure demand mode.

#### Hazardous Decomposition Products:

Oxides of carbon

### Section 6. Accidental Release Measures

<b>Personal precautions</b>	Wear the required PPE. Ensure adequate ventilation, and evacuate personnel to safe areas if necessary.
<b>Environmental Precautions</b>	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
<b>Methods and materials for containment and cleaning up</b>	Clean up with spill with a suitable absorbent, and sweep up and containerize for reclamation or disposal. Note: US Regulations (CERCLA) may require reporting spills and releases to soil, water, and air in excess of reportable quantities. See Section 15 for regulatory information.

### Section 7. Handling and Storage

<b>Precautions for Safe Handling</b>	Use appropriate PPE (see section 8). Do not ingest. Do not get in eyes or on skin or clothing. Avoid breathing vapor or mist. After handling, always wash hands thoroughly. Wash contaminated clothing before reusing.
<b>Conditions for Safe Storage</b>	Store in original container protected from physical damage in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Store between the following temperatures: 40°F - 100°F.

### Section 8. Exposure Controls/Personal Protection

<u>Product</u>	<u>OSHA (TWA)</u>	<u>ACGIH (TWA)</u>
Isopropanol	400 ppm	200 ppm

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**Ventilation System:** A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

### Personal Protective Equipment (PPE):



**Eyes:** Splash goggles

**Body:** Proper clothing, gloves

**Respiratory:** Use with adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.

## Section 9. Physical and Chemical Properties

<b>Appearance</b>	Clear colorless liquid
<b>Solubility</b>	Soluble
<b>Odor</b>	Alcoholic
<b>Odor Threshold</b>	No data available
<b>pH(100%)</b>	6 - 8
<b>Flash Point</b>	< 100 F (TCC)
<b>Evaporation Rate</b>	No data available
<b>Autoignition Temperature</b>	No data available
<b>Lower explosion limit</b>	No data available
<b>Upper explosion limit</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Partition coefficient: n-octanol/water</b>	log Pow: 0.05
<b>% Volatiles by volume</b>	100%
<b>%VOC</b>	70%
<b>% HAP</b>	None
<b>Boiling Point</b>	180 F
<b>Freezing Point</b>	< 32 F
<b>Vapor Density (Air = 1)</b>	2.1
<b>Vapor Pressure (mm Hg)</b>	44 mm Hg
<b>Specific Gravity ( @ 25 C)</b>	0.8

## Section 10. Stability and Reactivity

**Stability:** Stable under ordinary conditions of use and storage

**Hazardous Decomposition Products:** Oxides of carbon

**Hazardous Polymerization:** Will not occur

**Incompatibilities:** Heat, flame, strong oxidizers, acetaldehyde, acids, chlorine, ethylene oxide, hydrogen-palladium combination, hydrogen peroxide-sulfuric acid combination, potassium tert-butoxide, hypochlorous acid, isocyanates, nitroform, phosgene, aluminum, oleum and perchloric acid.

**Conditions to Avoid:** Incompatibilities, heat, flames, and ignition sources

**SAFETY DATA SHEET****Product: IPA 70%****Section 11. Toxicological Information**

<b>Routes of entry</b>	Ingestion
<b>Toxicity Data</b>	<b>LD<sub>50</sub> (oral, rat)</b> 5045 mg/kg <b>LD<sub>50</sub> (dermal, rabbit)</b> 12800 mg/kg
<b>Carcinogenicity Data</b>	No components have been listed as carcinogenic.
<b>Skin Corrosion/Irritation</b>	No data available
<b>Serious Eye Damage/Eye Irritation</b>	No data available
<b>Respiratory or Skin Sensitization</b>	No data available
<b>Reproductive Effects</b>	No data available
<b>Mutagenicity Data</b>	No data available
<b>Teratogenicity Data</b>	No data available
<b>Potential Health Effects</b>	
<b>Eyes</b>	May cause irritation, redness, and pain.
<b>Skin</b>	May cause irritation with redness.
<b>Inhalation</b>	May cause coughing and sneezing with possible difficult breathing at high concentrations. Repeated or prolonged exposure can cause central nervous system depression ranging from drunkenness to unconsciousness, narcosis, coma, and respiratory failure.
<b>Ingestion</b>	May irritate GI tract. Abdominal pain, nausea, and vomiting may occur. Large amounts can cause symptoms as those listed under "Inhalation"




**Section 12. Ecological Information**

<b>Environmental Toxicity</b>	LC50-Pimephales promelas (fathead minnow)-9,640g/l-96 h EC50-Daphnia magna (Water flea)-5,102mg/l-24 h
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulative potential</b>	Not expected to bioaccumulate.
<b>Mobility in soil</b>	No data available
<b>Other adverse affects</b>	No data available

**Section 13. Disposal Considerations**

<b>Waste Information:</b>	Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use, or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state, and local requirements.
<b>Waste Stream:</b>	Regulated as a hazardous waste.

**SAFETY DATA SHEET****Product: IPA 70%****Section 14. Transportation Information**

Regulatory Information:	ID Number	Proper Shipping Name	Hazard Class	Packing Group	Label(s)
DOT	UN1219	Isopropanol	3	II	
IMDG	UN1219	Isopropanol	3	II	
IATA	UN1219	Isopropanol	3	II	

Marine Pollutant (Yes/No) No

Special precautions None

**Section 15. Regulatory Information**

S.A.R.A. 311/312 Acute: Yes Chronic: Yes Reactivity: No Pressure: No Fire: Yes

S.A.R.A. 313 No component listed under Section 313 above the de minimis limit

S.A.R.A. 302 (EHS) No components listed under Section 302

CERCLA None listed

T.S.C.A. All components are listed in the T.S.C.A. Inventory

California Prop 65 No component listed under California Prop 65

**Section 16. Other Information**

PHOENIX CHEMICAL COMPANY HAS PROVIDED THE INFORMATION IN THIS SDS IN GOOD FAITH, BUT WE MAKE NO REPRESENTATION TO ITS COMPREHENSIVENESS AND/OR ACCURACY. IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE SAFETY, TOXICITY, AND SUITABILITY FOR HIS OR HER OWN USE OF THE PRODUCT DESCRIBED. SINCE THE ACTUAL USE BY OTHERS IS BEYOND OUR CONTROL, NO GUARANTEE, EITHER EXPRESSED OR IMPLIED, IS MADE BY PHOENIX CHEMICAL COMPANY. PHOENIX CHEMICAL COMPANY WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM THE USE OR RELIANCE UPON THIS INFORMATION. THE USER ASSUMES ALL RISK AND RESPONSIBILITIES.

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