

## SAFETY DATA SHEETS

**This SDS packet was issued with item:**

078696442

N/A

**PRODUCT NAME: ISOPROPYL ALCOHOL 99%**

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This Material Safety Data Sheet is being provided to your company, for the purpose of providing current health and safety information to your management and employees who work with this product. Please read the data provided and then provide it to those people at your company who have the responsibility to insure compliance with both FEDERAL and STATE Right to Know regulations, and to those employees that request information on this product.

**Federal Regulations:** Parts 29 and 42 Code of Federal Regulations.**State of Illinois:** Public Act 83-240**SECTION 1 - PRODUCT IDENTIFICATION****Manufacturer:** First Priority, Inc.  
1585 Todd Farm Drive  
Elgin, IL 60123**Telephone Number:** 800-650-4899  
**Emergency Number:** Chemtrec  
800-424-9300**Chemical Family:** Alcohols**Formula:** (CH<sub>3</sub>)<sub>2</sub>CHOH**Hazard Classification:** Hazardous**HMIS Rating System:** Health-2/Flammability-3/Reactivity-0**SECTION 2 - HAZARDOUS COMPONENTS**

<b>Ingredient</b>	<b>CAS#</b>	<b>PEL/TLV</b>	<b>Percent</b>
Isopropyl Alcohol	67-63-0		99%

The hazard communication standard requires that such mixtures be assumed to present the same health hazard as do components that constitute as least 1% of the mixture (0.1% for carcinogens) although OSHA has noted that the hazards of individual components may be altered by including them in a mixture. Some of the ingredients of this mixture are a trade secret. NE = not established.

**SECTION 3 - PHYSICAL DATA**

<b>Boiling Point:</b>	180° to 181° F	<b>Specific Gravity:</b>	0.79 @ 68°F
<b>Vapor Pressure:</b>	96 mmHg @ 100° F	<b>Percent Volatile:</b>	N.E.
<b>Vapor Density:</b>	at 1 atm (Air=1) Greater than 1.00	<b>Evaporation Rate:</b>	2.88 n-Bu Acetate=1
<b>Solubility in Water:</b>	100.00 @ 68°	<b>Appearance &amp; Odor:</b>	Clear colorless liquid with typical odor

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**SECTION 4 - FIRE & EXPLOSION DATA**

**Flash Point (Method):** 53°F Method - TCC (Tag Closed Cup)  
**Estimated Flammable Limits in Air:** Lower: 2 Upper: 12.7% (v) 200° F  
**Extinguishing Media:** Water spray, alcohol type foam and dry chemical.  
**Special Fire Fighting Procedures:** Use water spray to cool fire exposed surfaces and to protect personnel. Shut off "fuel" to fire. If a leak or spill has not ignited, use water spray to disperse the vapors. Either allow fire to burn under controlled conditions or extinguish with alcohol type foam and dry chemical. Try to cover liquid spills with foam.  
**Unusual Fire & Explosion Hazards:** Flammable liquid, can release vapors that form flammable mixtures at temperatures at or above the flashpoint. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION: THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or properly disposed of.

**SECTION 5 - HEALTH HAZARD DATA****Effects Of Overexposure**

**Eyes:** Irritating, and will injure eye tissue if not removed promptly.  
**Skin:** Frequent or prolonged contact may irritate and cause dermatitis.  
**Inhalation:** Vapor concentrations above recommended exposure levels are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, are anesthetic and may have other central nervous system effects. Negligible hazard at ambient temperature (-18 to 38 Deg C: 0 to 100 Deg F)  
**Ingestion:** Minimal toxicity. Small amounts of the liquid aspirated into the respiratory system during ingestion, or from vomiting, may cause bronchiopneumonia or pulmonary edema.

**Emergency First Aid Procedures:**

**Eye Contact:** Immediately flush eyes with large amounts of water for at least 15 minutes. Get medical attention.  
**Skin Contact:** Thoroughly wash exposed area with soap and water. Remove contaminated clothing, including shoes, after flushing has begun.  
**Inhalation:** Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention.  
**Ingestion:** If swallowed, DO NOT induce vomiting. Keep at rest. Get prompt medical attention.

**SECTION 6 - REACTIVITY DATA**

**Stability:** Stable  
**Conditions to avoid instability:** Not applicable.  
**Incompatibility:** Caustics, amines, alkanolamines, aldehydes, strong oxidizing agents, and chlorinated compounds.  
**Hazardous Decomposition Byproducts:** None.  
**Hazardous Polymerization:** Will not occur.

**SECTION 7 - SPILL OR LEAK PROCEDURES****Steps To Be Taken In Case Of Large Amount Of Material Is Released Or Spilled:**

Eliminate sources of ignition. Prevent additional discharge of material, if possible to do so without hazard. For small spills implement cleanup procedures; for large spills implement cleanup procedures and, if in public area, keep public away and advise authorities. Prevent liquid from entering sewers, watercourses, or low areas. Contain spilled liquid with sand or earth. Do not use combustible materials such as sawdust. Recover by pumping (use an explosion proof or hand pump) or with a suitable absorbent. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

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**SECTION 8 - SPECIAL PROTECTION**

**Respiratory Protection:** Self-contained breathing apparatus.  
**Ventilation:** Use of mechanical dilution ventilation is recommended whenever this product is used in a confined space, is heated above ambient temperatures, or is agitated. Use explosion-proof ventilation equipment.  
**Protective Gloves:** Chemical resistant gloves.  
**Eye Protection:** Chemical goggles or face shield.  
**Other Protective Equipment:** Emergency eye wash stations and showers should be available.

**SECTION 9 - SPECIAL PRECAUTIONS OR COMMENTS****Special precautions to be taken**

**in handling & storing:** Keep container closed. Handle and open containers with care. Store in a cool, well ventilated place away from incompatible materials. Do NOT handle or store near an open flame, heat or other sources of ignition. Protect material from direct sunlight. This material is not a static accumulator, but use proper grounding procedures. Do not cut, heat or weld containers. Empty product containers may contain product residue. Do NOT reuse empty containers without commercial cleaning or reconditioning.

**Initial Date:** July, 1996.

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# centaur

## ANIMAL HEALTH

Safety  
Data  
Sheet

# 70% Isopropyl Alcohol

(Sec-propyl alcohol, Sec-Propanol, Isopropanol, Dimethylcarbinol)

Olathe, KS Tel: 913-390-6184

Emergency phone: 800 424 9300 (Chemtrec)

### 1. Product Identity

NFPA Rating: Health 2, Flammability 3, Reactivity 2 Special 0  
HMIS Rating: Health 2, Flammability 3, Physical 2, Reactivity, 0

Product Name: 70% Isopropyl Alcohol  
Product Number: 32

### 2. Hazardous Ingredients

Isopropanol

Flammable



**Signal Word:** Danger

**Hazard Statement:** Flammable

**Precautionary Statements:** Take time observe label directions. If taken internally, gastric disturbances will result. Keep away from children. Keep away from heat & open flame. Keep container closed when not in use. Store at 15°-30°C (59°-86°F). Avoid contact with eyes & mucous membranes. Wash skin thoroughly after handling. Antiseptic & rubbing compound. For veterinary use only. May be fatal if swallowed.

### 3. Composition

Isopropanol: CAS: 67-63-0  
Water: CAS: 7732-18-5  
Weight%: Isopropyl Alcohol: 70%  
Water: ~30%

#### **4. First Aid Measures**

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

**Ingestion:** Give several glasses of water to drink to dilute. If large amounts were consumed, get medical advice.

**Skin Contact:** Immediately flush skin with plenty of water for at least 15 minutes. Call a physician if irritation persists.

#### Acute Health Effects

**Eye Contact:** Vapors cause eye irritation. Splashes cause severe irritation, possible cornea burns and eye damage.

**Ingestion:** Can cause drowsiness, unconsciousness and death. Gastrointestinal pain, cramps, nausea, vomiting and diarrhea may also result. The single lethal dose for a human adult=about 250ml (8 ounces)

**Inhalation:** Inhalation of vapors irritate the respiratory tract. Exposure to high concentrations has a narcotic effect, producing symptoms of dizziness, drowsiness, headache, staggering, unconsciousness and possibly death.

**Skin Contact:** May cause irritation with redness and pain. May be absorbed through the skin with possible systemic effects.

#### Chronic Health Effects:

May cause skin effects

#### **5. Fire Fighting Measures**

**Flash Point:** 12 C° Flammable  
**Extinguishing Media:** Water spray, dry chemical, alcohol foam or carbon dioxide. Water spray may be used to keep fire exposed containers cool, dilute spills to nonflammable mixtures, protect personnel attempting to stop leak & disperse vapors.

<p><b>6. Accidental Release Measures</b></p>	<p>Unusual Fire/Explosion Hazards: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.</p> <p><u>Steps to take in case of spill, leak or release:</u></p> <p>Ventilate area of leak or spill. Remove sources of ignition. Wear appropriate personal protective equipment. Contain and recover liquid when possible. Collect liquid in an appropriate container or absorb with an inert material (e.g. vermiculite, dry sand, earth) and place in a chemical waste container. Do not use combustible materials such as saw dust</p>				
<p><b>7. Handling &amp; Storage</b></p>	<p>Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.</p>				
<p><b>8. Control Measures</b></p>	<table data-bbox="565 1050 1161 1123"> <tr> <td>OSHA TWA:</td> <td>400ppm</td> </tr> <tr> <td>ACGIH TLV:</td> <td>200ppm</td> </tr> </table> <p><u>Other precautions:</u></p> <p>Keep container tightly closed when not using. Store in dark, cool ventilated area. Protect from freezing. Isolate from incompatible substances. Protect container from physical damage. Containers of this material can be hazardous when empty since they retain product residues.</p> <p><u>Ventilation:</u></p> <p>A system of local and/or general exhaust is recommended to keep employee exposure below the Airborne Exposure Limits. 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.</p> <p><u>Protective clothing or equipment:</u></p> <p>Splash goggles, lab coat, gloves</p> <p><u>Work or Hygienic Practices:</u></p>	OSHA TWA:	400ppm	ACGIH TLV:	200ppm
OSHA TWA:	400ppm				
ACGIH TLV:	200ppm				

<p><b>9. Physical &amp; Chemical Properties</b></p>	<p>Use good personal hygiene when handling this product. Wash hands after use, before smoking or eating, and before using the toilet.</p> <p>Small amounts of peroxides can form on prolonged storage. Exposure to light and/or air significantly increases the rate of peroxide formation. If evaporated to a residue, the mixture of peroxides and isopropanol may explode when exposed to heat or shock.</p> <p>Appearance: Colorless Liquid  Odor: Rubbing Alcohol  Specific Gravity: 0.8691-0.8771 @ 20 C°  pH: Not Available  Boiling point: 82°C  Vapor Pressure: 44 @ 25 C°  Evaporation Rate: 2.83  Solubility in Water: Cold water &amp; hot water</p>
<p><b>10. Stability &amp; Reactivity</b></p>	<p>Stability: Stable at room temperature, heat and sunlight can contribute to instability</p> <p>Incompatibility: Heat, flame, strong oxidizers, acetaldehyde, acids, chlorine, ethylene oxide, hydrogen-palladium combination, hydrogen peroxide-sulfuric acid combination, potassium tertbutoxide, hypochlorous acid, isocyanates, nitroform, phosgene, aluminum, oleum and perchloric acid.</p> <p>Corrosivity: N/A  Hazardous polymerization: Will not occur.  Special Remarks on Reactivity: Carbon dioxide and carbon monoxide may form when heated to decomposition</p>
<p><b>11. Toxicological Information</b></p>	<p>None</p>
<p><b>12. Ecological Information</b></p>	<p>None</p>
<p><b>13. Disposal Information</b></p>	<p><u>Waste disposal method:</u></p>

**14. Transport Information**

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. Follow all local, state and federal regulations for disposal of containers.

DOT Class: Flammable & Combustible  
Hazard Class: 3  
UN Number: UN1219  
Package code: II  
Shipping Name: Isopropanol.



**15. Regulatory Information**

Follow all local, state and federal regulations for disposal of containers.

**16. Other Information**

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