SECTION 1. Product and Company Identification
70% ISOPROPYL ALCOHOL

Product Code: HH-70% ISO ALCO
Product Name: 70% ISOPROPYL ALCOHOL
Manufacturer Information
Company Name: Distributed by:
Farnam Companies, Inc.
301 West Osborn Road
Phoenix, AZ
Emergency Contact: Animal or human exposure (800)234-2269
Alternate Emergency Contact: CHEMTREC (Emergency spills) (800)424-9300
Information: Farnam Companies (800)234-2269
Chemical Family: Alcohol Mixture
Additional Identity Information
77305

SECTION 2. Composition/Information on Ingredients
70% ISOPROPYL ALCOHOL

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>Concentration</th>
<th>OSHA PEL</th>
<th>ACGIH TWA</th>
<th>Other Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>67-63-0</td>
<td>70.0 %</td>
<td>400 ppm</td>
<td>200 ppm</td>
<td>No data.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>OSHA STEL</th>
<th>OSHA CEIL</th>
<th>ACGIH STEL</th>
<th>ACGIH CEIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>67-63-0</td>
<td>No data.</td>
<td>No data.</td>
<td>400 ppm</td>
<td>No data.</td>
</tr>
</tbody>
</table>

SECTION 3. Hazards Identification
70% ISOPROPYL ALCOHOL

Emergency Overview
KEEP OUT OF THE REACH OF CHILDREN
Route(s) of Entry: Inhalation? Yes, Skin? Yes, Eyes? Yes, Ingestion? Yes
Potential Health Effects (Acute and Chronic)
Contact with skin or eyes may irritate and burn. Inhalation can irritate nose and throat. Overexposure can cause headache, drowsiness, confusion, loss of coordination, unconsciousness and death.
Signs and Symptoms Of Exposure
Early to moderate CNS depression may be evidenced by giddiness, headache, dizziness and nausea; in extreme cases, unconsciousness, respiratory depression and death may occur.

**Medical Conditions Generally Aggravated By Exposure**
Pre-existing eye and/or skin irritation, respiratory, and/or digestive disorders.

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### SECTION 4. First Aid Measures
70% ISOPROPYL ALCOHOL

**Emergency and First Aid Procedures**

IF INHALED: Remove victim to fresh air and provide oxygen if breathing is difficult. Obtain medical attention.

IF ON SKIN: Flush skin with plenty of water. If irritation occurs, seek medical attention.

IF INGESTED: Do not give liquids if victim is unconscious or drowsy. Otherwise give no more than 2 glasses of water and induce vomiting. Obtain medical attention.

IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Obtain medical attention.

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### SECTION 5. Fire Fighting Measures
70% ISOPROPYL ALCOHOL

**Flash Pt:** 70.00 F  
**Method Used:** Small Scale Open Cup

**Explosive Limits:**
- LEL: 2%
- UEL: 12%

**Autoignition Pt:** NE

**Fire Fighting Instructions**

Warning. Flammable. Clear fire area of unprotected personnel. Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus. Cool fire exposed containers with water.

**Flammable Properties and Hazards**
Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup which could result in container rupture. Container areas exposed to direct flame contact should be cooled with large quantities of water as needed to prevent weakening of container structure.

**Hazardous Combustion Products**
No data available.

**Extinguishing Media**
Use water spray, water fog, "alcohol" foam, dry chemical or CO2

**Unsuitable Extinguishing Media**
None known

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### SECTION 6. Accidental Release Measures
70% ISOPROPYL ALCOHOL

**Steps To Be Taken In Case Material Is Released Or Spilled**
Keep out of surface waters, sewers, and waterways entering or leading to surface waters. Notify authorities if any exposure to the general public or environment occurs or is likely to occur.

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### SECTION 7. Handling and Storage
70% ISOPROPYL ALCOHOL
Precautions To Be Taken in Handling
Avoid heat or sparks.

Precautions To Be Taken in Storing
No data available.

Other Precautions
None known.

SECTION 8. Exposure Controls/Personal Protection
70% ISOPROPYL ALCOHOL

Respiratory Equipment (Specify Type)
A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Eye Protection
Wear chemical goggles to protect eyes.

Protective Gloves
Wear chemical resistant gloves.

Other Protective Clothing
No data available.

Engineering Controls (Ventilation etc.)
Provide local exhaust ventilation and supply fresh air to maintain a safe work environment.

Work/Hygienic/Maintenance Practices
Safety showers and eye wash stations should be available.
Odor Threshold; Isopropanol = 43 ppm.

SECTION 9. Physical and Chemical Properties
70% ISOPROPYL ALCOHOL

Physical States: [ ] Gas [ X ] Liquid [ ] Solid
Melting Point: NA - N.A.
Boiling Point: 176.00 F - N.A.
Decomposition Temperature: NE
Autoignition Pt: NE
Flash Pt: 70.00 F Method Used: Small Scale Open Cup
Explosive Limits:
LEL: 2% UEL: 12%
Specific Gravity (Water = 1): 0.878N.A.
Density: NE
Bulk density: NE
Vapor Pressure (vs. Air or mm Hg): NE
Vapor Density (vs. Air = 1): 1.6N.A.
Evaporation Rate: 1.7 N.A.
Solubility in Water: NE
Percent Volatile: N.A.
VOC / Volume: NE
HAP / Volume: NE
Saturated Vapor
Concentration: NE
Viscosity: NE
Heat Value: NE
Particle Size: NE
Corrosion Rate: NE
pH: NE

Appearance and Odor
Clear colorless liquid with a mild alcohol odor

SECTION 10. Stability and Reactivity
70% ISOPROPYL ALCOHOL

Stability: Unstable [ ] Stable [ X ]

Conditions To Avoid - Instability
Avoid heat, sparks, and flame.

Incompatibility - Materials To Avoid
Avoid contact with strong oxidizing agents. Do not store or handle in aluminum equipment at temperatures above 120 F.

Hazardous Decomposition Or Byproducts
Carbon monoxide, and unidentified organic compounds may be formed during combustion.

Hazardous Polymerization: Will occur [ ] Will not occur [ X ]

Conditions To Avoid - Hazardous Polymerization
No data available.

SECTION 11. Toxicological Information
70% ISOPROPYL ALCOHOL

None known

Chronic Toxicological Effects
None known

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>NTP</th>
<th>IARC</th>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>67-63-0</td>
<td>n.a.</td>
<td>n.a.</td>
<td>A4</td>
<td>n.a.</td>
</tr>
</tbody>
</table>

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

SECTION 12. Ecological Information
70% ISOPROPYL ALCOHOL

None known

SECTION 13. Disposal Considerations
70% ISOPROPYL ALCOHOL

Waste Disposal Method
Under EPA-RCRA (40 CFR 261), If this product becomes a waste material, it is not hazardous waste. Refer to latest EPA or state regulations regarding proper disposal.

http://msds.farnam.com/m000673.htm 5/1/2012
SECTION 14. Transport Information
70% ISOPROPYL ALCOHOL

LAND TRANSPORT (US DOT)

DOT Proper Shipping Name  Consumer Commodity ORM-D

Additional Transport Information
No data available.

SECTION 15. Regulatory Information
70% ISOPROPYL ALCOHOL

No data available.

SECTION 16. Other Information
70% ISOPROPYL ALCOHOL

This product contains the following toxic chemicals currently subject to the reporting requirements of SARA Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

CAS Number 67-63-0 Name Isopropanol Weight <70%

Company Policy or Disclaimer
The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. It is offered for your consideration, investigation and verification.

<table>
<thead>
<tr>
<th>Haz Rating Hazard Ratings:</th>
<th>Minimal: 0</th>
<th>Slight: 1</th>
<th>Moderate: 2</th>
<th>Serious: 3</th>
<th>Extreme: 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health:</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability:</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reactivity:</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Special Hazard:</td>
<td>NA</td>
<td></td>
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</table>

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