MSDS: 70% Isopropyl Alcohol

MATERIAL SAFETY DATA SHEET

SECTION 1. Product and Company Identification

70% Isopropyl Alcohol

Product Code: HH-70% ISO ALCO, Reference #: 77305
Product Name: 70% Isopropyl Alcohol Chemical Family: Alcohol Mixture

Manufacturer Name and Address: Farnam Companies, Inc.
301 West Osborn Road
Phoenix, AZ 85013

Telephone Numbers: Business hours (602)285-1660
24 hour emergency number (602)285-1660
Marketing (602)285-1660

Dates:
Date Created: 09/08/1994
Revision: 04/11/2006
Printed: 04/11/2006

SECTION 2. Composition/Information on Ingredients

70% Isopropyl Alcohol
Hazardous Components (Chemical Name)  

<table>
<thead>
<tr>
<th>#</th>
<th>Chemical Name</th>
<th>CAS #</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Isopropyl alcohol {sec-Propyl alcohol; IPA; 2-Propanol}</td>
<td>67-63-0</td>
<td>70.0 %</td>
</tr>
</tbody>
</table>

OSHA PEL  

<table>
<thead>
<tr>
<th>#</th>
<th>PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>400 ppm</td>
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</table>

ACGIH TLV  

<table>
<thead>
<tr>
<th>#</th>
<th>TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>400 ppm</td>
</tr>
</tbody>
</table>

SECTION 3. Hazards Identification  

70% Isopropyl Alcohol

Emergency Overview
No data available.

Route(s) of Entry:
Inhalation? Yes, Skin? Yes, Eyes? Yes, Ingestion? Yes

Potential Health Effects (Acute and Chronic)
No data available.

Carcinogenicity:

Carcinogenicity/Other Information
No data available.

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.

SECTION 4. First Aid Measures  

70% Isopropyl Alcohol

Emergency and First Aid Procedures
INHALATION = Remove victim to fresh air and provide oxygen if breathing is difficult. Obtain medical attention.

SKIN CONTACT = Flush skin with plenty of water. If irritation occurs, seek medical attention.

INGESTION = 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.

EYE CONTACT = Immediately flush eyes with plenty of water for at least 15 minutes. Obtain medical attention.

Note to Physician
No data available.

SECTION 5. Fire Fighting Measures  

70% Isopropyl Alcohol

Flash Pt: 70.00 F  
Method Used: open cup

Explosive Limits: LEL: 2% UEL: 12%

Autoignition Pt: N.A.  
Extinguishing Media
Use water spray, water fog, "alcohol" foam, dry chemical or CO2

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.

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.

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

Boiling Point:
176.00 F to N.A.

Melting Point:
N.A. to N.A.

Specific Gravity (Water = 1):
0.878N.A.
Density: No data.
Vapor Pressure (vs. Air or mm Hg): No data.
Vapor Density (vs. Air = 1): 1.6N.A.
Evaporation Rate (vs Butyl Acetate=1): 1.7N.A.
Solubility in Water: No data.
Other Solubility Notes: Complete
Percent Volatile: No data.
Saturated Vapor Concentration: No data.
Viscosity: No data.
pH: No data.
Appearance and Odor
Appearance = Clear Colorless Liquid
Odor = 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

No data available.

SECTION 12. Ecological Information
70% Isopropyl Alcohol

No data available.

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.

SECTION 14. Transport Information
70% Isopropyl Alcohol

DOT Proper Shipping Name
No data available.

DOT Hazard Label: Consumer Commodity ORM-D
UN/NA Number: No data available.

Additional Transport Information
No data available.

SECTION 15. Regulatory Information
70% Isopropyl Alcohol
No data available.

SECTION 16. Other Information
70% Isopropyl Alcohol

Supercedes Revision 04/23/2001
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%

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.