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MATERIAL SAFETY DATA SHEET

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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: CHEMTREC (800)424-9300
Alternate Emergency Contact: District of Columbia (202)483-0414
Information: Farnam Companies, Inc. (800)234-2269
Chemical Family: Alcohol Mixture
Additional Identity Information
 77305

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

| Hazardous Components (Chemical Name) | CAS # | Concentration | OSHA PEL | ACGIH TWA | ACGIH STEL |
|--------------------------------------|---------|---------------|----------|-----------|------------|
| Isopropyl alcohol | 67-63-0 | 70.0 % | 400 ppm | 200 ppm | 400 ppm |

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.

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.

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.

Extinguishing Media

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

Unsuitable Extinguishing Media

None known

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.

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.

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 Liquid Solid
Melting Point: N.A. - N.A.

Boiling Point: 176.00 F - N.A.
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): N.A.
Vapor Density (vs. Air = 1): 1.6N.A.
Evaporation Rate (vs Butyl Acetate=1): 1.7N.A.
Solubility in Water: N.A.
Percent Volatile: NE
VOC / Volume: NE 0.0000
HAP / Volume: NE 0.0000
Saturated Vapor Concentration: NE
Viscosity: NE
Heat Value: NE
Particle Size: NE
Corrosion Rate: NE
pH: NE
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

None known

Chronic Toxicological Effects

None known

Carcinogenicity/Other Information

No data available.

| Hazardous Components (Chemical Name) | CAS # | NTP | IARC | ACGIH | OSHA |
|--------------------------------------|---------|------|------|-------|------|
| Isopropyl alcohol | 67-63-0 | n.a. | n.a. | A4 | n.a. |

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.

SECTION 14. Transport Information
70% ISOPROPYL ALCOHOL**LAND TRANSPORT (US DOT)**

DOT Proper Shipping Name

Consumer Commodity ORM-D

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.

| Haz Rating Hazard Ratings: | | | |
|----------------------------|-----------|-------------|--|
| Health: | 1 | Minimal: 0 | Generated 01/04/2010 Revision 01/22/2009 Supersedes Revision 01/21/2009 Date Created 09/08/1994 |
| Flammability: | 3 | Slight: 1 | |
| Reactivity: | NA | Moderate: 2 | |
| Special Hazard: | NA | Serious: 3 | |
| | | Extreme: 4 | |