

**THE TRIAD GROUP**

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ISSUE DATE: 10 April, 2006**PRODUCT:** 70% Isopropyl Alcohol Solution

SECTION II: HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits	%
Isopropyl Alcohol	400 ppm		STEL: 500 ppm	70%

SECTION III: PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 180° F
Vapor Pressure (mm Hg.): 33 mm Hg @20°C
Vapor Density (AIR = 1): 2.1
Specific Gravity (H2O = 1): 0.859
Melting Point: NA
Evaporation Rate (Butyl Acetate = 1): NA
Solubility in Water: Soluble
Appearance and Odor: Clear solution, characteristic alcohol odor

SECTION IV: FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): 71° F
Flammable Limits
LEL: 2.0%
UEL: 12.7%
Extinguishing Media: Dry chemical, carbon dioxide, alcohol foam
Special Fire Fighting Procedures: NA

Unusual Fire and Explosion Hazards: **FLAMMABLE LIQUID.** Vapors may cause a flash fire or ignite explosively. In large quantities vapors may travel a considerable distance to a source of ignition and flash back.

SECTION V: REACTIVITY DATA

Stability

Unstable: No

Stable: Yes

Conditions to Avoid: Sources of Ignition and high temperatures

Incompatibility (Materials to Avoid): Strong oxidizers, acids, alkalis, acetaldehyde, chlorine, ethylene oxide, isocyanates, aluminum

Hazardous Decomposition
or Byproducts: Carbon Dioxide, Carbon Monoxide, methanol and other toxic products of combustion.

Hazardous Polymerization

May Occur: No

Will Not Occur: Yes

Conditions to Avoid: NA

SECTION VI: HEALTH HAZARD DATA

Route(s) of Entry

Inhalation? Yes

Skin? Yes

Ingestion? NA

Health Hazards (Acute and Chronic): Causes drying, cracking and irritation of skin. Eye irritation. Inhalation can cause irritation of upper respiratory tract, drowsiness, fatigue, headache, low blood pressure, loss of coordination, respiratory depression, kidney damage. Contact a **POISON CONTROL CENTER** if ingested.

Carcinogenicity

NTP? NA

IARC Monographs? NA

OSHA Regulated? NA

Signs and Symptoms of Exposure: Drying, cracking, irritation of skin, irritation of the eyes and upper respiratory tract. See above health hazards section.

Medical Conditions Generally
Aggravated by Exposure: Preexisting eye, skin and respiratory disorders. Kidney disorders.

Emergency and First Aid Procedures:

Skin Contact:	Wash affected area with soap and water. Seek medical attention if irritation persists.
Eye Contact:	Flush eyes with copious amounts of water. Seek medical if irritation persists.
Inhalation:	Remove to fresh air. Seek medical attention if breathing difficulties persist.
Ingestion:	Do not induce vomiting. Seek immediate medical attention.

SECTION VII: PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case
Material is Released or Spilled: Eliminate sources of ignition. Prevent material from entering sewer system. Absorb liquid with absorbent material and drum for disposal. Wear gloves and appropriate respiratory protection.

Waste Disposal Method: Incineration. Dispose of in accordance with local, state and federal regulations.

Precautions to Be Taken
in Handling and Storing: **FLAMMABLE LIQUID.** Keep away from sparks, flames and high temperatures.

Other Precautions: **KEEP OUT OF REACH OF CHILDREN**

SECTION VIII: CONTROL MEASURES

Respiratory Protection (Specify Type): Organic Vapor

Ventilation

Local Exhaust: Recommended
Mechanical
(General): Recommended
Special: NA
Other: NA

Protective Gloves: Alcohol resistant gloves

Eye Protection: Safety glasses/Goggles

Other Protective Clothing
or Equipment: Any protective equipment or clothing which will minimize contact with this material. Ground all equipment this material is used in.

Work / Hygienic Practices: Good hygienic practice