BICLSY

HC#15

I- 446702
C- 400468
UN1170

MSDS

Ethanol Solution 95%

Section 1: Identification

Product Name. Ethanol Solution 95%
5% DI Water

Product Catalog No: 400468, 400446

Emergency Phone at Infotrac: (800) 535-5053

Date Prepared. 03/06/02

Section 2: Composition

Hazardous Component(s):		CAS Number	OSHA PEL, ACGIH TLV/STEL (PPM)		NFPA	
Methyl Alcohol	<5%	67-56-1	200	200/250	Health	1
Ethyl Alcohol	~86%	64-17-5	1000	1000/NR	Flammability	3
Isopropyl Alcohol	<5%	67-63-0	980	980/1230	Reactivity	0

Section 3: Physical Data

Boiling Point:	148°F	*Specific Gravity (H_20 = 1):*	0.84
Vapor Pressure mm Hg/20°C:	96	*Percent Volatile by Vol:*	91%
Vapor Density (Air 1:1)	1.11	*Evaporation Rate (ether = 1):*	>1
Solubility in H20:	Complete	*Appearance & Odor:*	Clear liquid/sweet odor

Section 4: Fire and Explosion Hazard

Flash Point: 54°F TCC *Flammable Limits:* LEL: 6.7 UEL: 36.5

Extinguishing Media: Water spray, dry chemical, CO_2 and foam for alcohol

Special Firefighting Procedures: Wear protective clothing with NIOSH approved breathing apparatus. Products of combustion may be harmful in a fire situation. Do not use direct water stream

Unusual Fire & Explosion Hazards. Eliminate sources of ignition. Burns with invisible flame.

Section 5: Reactivity

Stability: Stable *Material to Avoid:* Strong oxidizers, chromic anhydride, perchloric acids, etc.

Hazardous Decomposition or Byproducts: Oxides of carbon

Hazardous Polymerization: Does not occur *Conditions to Avoid:* Excessive heat, sparks or flames.

Section 6: Health Hazards

Routes of Entry: Inhalation, skin and ingestion

Acute: Vapors may cause eye, skin and respiratory irritation, drowsiness, nausea, headache and vomiting.

Chronic: May cause liver, heart and kidney damage. May cause gastrointestinal disturbances, convulsions.

Carcinogenicity: Not classified as a human carcinogen.

Signs/Symptoms of Exposure: Blurred vision, drowsiness and headache.

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Section 6: Health Hazards cont'd
Emergency First Aid:

Skin: Remove contaminated clothing and wash affected area with soap and water.

Eyes: Thoroughly flush eyes with water. Contact a physician if irritation persists.

Ingestion: Rinse mouth thoroughly with water provided person is conscious. Contact a physician.

Inhalation: Remove person to fresh air. If not breathing, give artificial respiration and contact a physician.

Section 7: Safe Handling

Chemical Release or Spill: Eliminate source of ignition in the vicinity of the spill or released vapor. Isolate the spill area with sand or other absorbent material. Place all contaminated material in closed container for proper disposal.

Waste Disposal Method: All liquid and/or contaminated material should be disposed of in DOT approved waste containers. Incineration for liquids is the suggested method of disposal. Comply with all Federal, State and Local regulations for disposal.

Precautions for Handling and Storage: Use precautions for flammable liquids. Avoid excessive heat and sources of ignition. For large quantities, store in 'Flammable safety cabinet'. Use in well-ventilated area.

Section 8: Control Measures

Respiratory Protection: Not normally required. If used in a poorly ventilated area, use under an approved fume hood or NIOSH approved respirator.

Ventilation: Special 'Flammable' exhaust hood if vapor concentration is high. In well-ventilated areas, mechanical exhaust is sufficient.

Protective Gloves: Chemical resistant. *Eye Protection:* Safety glasses.

Other Protective Clothing or Equipment: Normal laboratory apparel suggested by Good Laboratory Practices.

Work/Hygienic Practices: Wash thoroughly with soap and water after handling.

The information listed here is believed to be correct and does not purport to be all-inclusive and shall be used only as a guide. HealthLink shall not be held liable for any damage resulting from handling or contact with this product.

HealthLink
3611 St. Johns Bluff Rd. So. Ste. 1
Jacksonville, FL 32224

For Technical Service Call 800-638-2625