

IDENTITY: Ethyl Rubbing Alcohol

SECTION I

DENISON PHARMACEUTICALS, INC.  
60 DUNNELL LANE  
PAWTUCKET, RI 02860

EMERGENCY PHONE NUMBER: LOCAL POISON CONTROL  
PHONE NUMBER FOR INFORMATION: (401) ~~732-5500~~  
DATE PREPARED: November 29, 1999 723-5500

SECTION II -- HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENTS	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED (Optional)
<u>Ethanol CAS# 64-17-5</u>	<u>1000 ppm</u>		<u>70%</u>
<u>Acetone CAS# 67-64-1</u>			
<u>MIBK CAS# 108-10-1</u>			

SECTION III -- PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT	<u>NLT 80C</u>	SPECIFIC GRAVITY (H <sub>2</sub> O = 1)	<u>@ 0.87</u>
VAPOR PRESSURE (mm Hg)	<u>N/A</u>	MELTING POINT	<u>N/A</u>
VAPOR DENSITY (Air = 1)	<u>N/A</u>	EVAPORATION RATE (Butyl Acetate = 1)	<u>N/A</u>

SOLUBILITY IN WATER: Soluble in water.

APPEARANCE AND ODOR

A clear, colorless liquid with ethanol odor.

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method Used) (Based on SDA 23H) @ 6C Closed Cup

FLAMMABLE LIMITS (Based on SDA 23H) LEL 4% UEL 20%

EXTINGUISHING MEDIA Dry chemical, carbon dioxide, water spray, or alcohol resistant foam.

SPECIAL FIRE FIGHTING PROCEDURES Use self-contained breathing apparatus and protective clothing. Use water spray to disperse vapors and cool fire exposed containers and structures.

UNUSUAL FIRE AND EXPLOSION HAZARDS Vapors may travel to a source of ignition and flash back. Container may explode in the heat of fire. Runoff to sewer may create fire or explosion hazard.

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**SECTION V -- REACTIVITY DATA**

STABILITY UNSTABLE ( ) CONDITIONS TO AVOID Heat, Flames, and Ignition sources.  
STABLE ( X )

INCOMPATIBILITY (Materials to Avoid) Strong oxidizing agents, Strong Acids, and Strong Bases.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS Carbon Monoxide and/or Carbon Dioxide

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**HAZARDOUS POLYMERIZATION**

MAY OCCUR ( ) CONDITIONS TO AVOID None Known.

WILL NOT OCCUR ( X )

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**SECTION VI -- HEALTH HAZARD DATA**

ROUTE(S) OF ENTRY:                      INHALATION? X SKIN? N/A INGESTION? X

**HEALTH HAZARDS**

ACUTE: Irritates eyes. Inhalation hazard. Toxic when ingested in large amounts.

CHRONIC: Prolonged and repeated overexposure may result in the development of progressive liver injury with fibrosis.

CARCINOGENICITY: NTP? IARC MONOGRAPHS? OSHA REGULATED?  
Not Known.

SIGNS AND SYMPTOMS OF EXPOSURE Eyes: Irritation, stinging, and excessive redness.

Inhalation: High concentrations of vapor may cause irritation of the respiratory tract, coughing, and chest pain.

Ingestion: May cause dizziness, faintness, decreased awareness and responsiveness, nausea, vomiting, gastrointestinal irritation, and coma.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE Not Known.

**EMERGENCY AND FIRST AID PROCEDURES**

Obtain medical assistance for all cases of overexposure. Move victim to fresh air. Flush eyes for at least 15 minutes with water.

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**SECTION VII -- PRECAUTIONS FOR SAFE HANDLING AND USE****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

Spills should be collected for disposal. Extinguish any ignition source.

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**WASTE DISPOSAL METHOD** Dispose of in accordance with Federal, State, and Local regulations.

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**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**

Store away from heat, sparks, or flame in closed container. Wash thoroughly after handling.

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**OTHER PRECAUTIONS** Sudden releases of hot organic vapors or mists may result in ignitions.

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**SECTION VIII -- CONTROL MEASURES**

**RESPIRATORY (Specify Type)** None for normal use. For bulk quantities use respirator.

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**VENTILATION**

**LOCAL EXHAUST** Good normal ventilation.

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**MECHANICAL (General)** None for normal use.

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**SPECIAL** N/A

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**OTHER** N/A

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**PROTECTIVE GLOVES** None for normal use. For bulk quantities use gloves.

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**EYE PROTECTION** Avoid contact. For bulk quantities use chemical splash goggles.

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**OTHER PROTECTIVE CLOTHING OR EQUIPMENT** For bulk quantities eye wash and safety shower should be available.

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**WORK/HYGENIC PRACTICES** Follow product instructions.

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