



# Biochemical Diagnostics, Inc.

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## MATERIAL SAFETY DATA SHEET

### GENERAL INFORMATION

**TRADE NAME:** Ethanol, Anhydrous

**Catalog Number:** 3506421-4  
3506424-9

**Part of Kits:** 3506112-6  
3506261-1  
3506094-4  
3506101-1  
3506095-2

**Chemical Name:** Reagent Alcohol

**CAS #:** N/A to mixtures

**Formula:** Mixture of  $C_2H_5OH + C_3H_7OH + CH_3OH$

### INGREDIENTS

**Components:** Mixture Ethyl Alcohol 90-95%  
Methyl Alcohol and Isopropyl Alcohol 1-5%

**Threshold Limit Values:** N/A

### PHYSICAL DATA

**Boiling Point:** 78C/ 172F (ethanol)

**Vapor Pressure:** 40 @ 19C mm Hg

**Vapor Density:** 1.6 (ethanol), Air=1

**Specific Gravity:** 0.79

**Percent Volatile:** 100%

**Evaporation Rate:** N/A

**Solubility H<sub>2</sub>O:** Miscible

**pH:** no information found

**Appearance:** Clear, colorless liquid

**Odor:** Mild pleasant, whiskey like odor

**Melting Point:** -114C/ -173F (ethanol)

### FIRE AND EXPLOSION HAZARD DATA

**Flammable Limits in air % by volume:**

**Lel:** 3.3

**Uel:** 19

**Flash Point:** 13C/55F

**Auto Ignition Temp:** 362C/685F

**Extinguishing Media:** Water spray, dry chemical, alcohol foam, or carbon dioxide. Water may be ineffective.

**Special Fire Fighting Procedures:** Wear proper protective equipment w/Self contained breathing apparatus

**Unusual Fire and Explosion Hazards:** Flammable Liquid and vapor. Dangerous fire hazard when exposed to heat of flame.

### REACTIVITY DATA

**Stability:** Stable

**Incompatibility:** Strong oxidants, silver salts, acid chlorides, alkali metals, metal hydrides, hydrazine, and many other substances.

**Conditions to Avoid:** Heat, flames, ignition sources and incompatibles.

**Hazardous Polymerization:** Will not occur

**Hazardous Decomposition:** Carbon dioxide and carbon monoxide may form when heated to decomposition.

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**ENVIRONMENTAL PROTECTION PROCEDURES**

**Spill Response:** Wear suitable clothing, carefully absorb and remove.

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

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**SPECIAL PROTECTION INFORMATION**

**Eye Protection:** Safety goggles and or full face shield whenever splashing is possible.

**Skin Protection:** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact

**Respiratory Protection:** If exposure limit is exceeded, wear a supplied air full face-piece respirator, air-lined hood, or full face-piece self-contained breathing apparatus.

**Ventilation:** Keep vapor levels as low as possible, use adequate general or local exhaust.

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**SPECIAL PRECAUTIONS**

**Insert Precautions:**

Keep container tightly closed. Use only with adequate ventilation.

**Contaminated Equipment Precautions:** Wash thoroughly with soap and water.

**Hygienic Handling and Storage:** Wash thoroughly with soap and water.

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**EMERGENCY AND FIRST AID PROCEDURES:**

**Ingestion:** May be harmful if swallowed in large quantity. Induce vomiting immediately as directed by medical personnel.

**Inhalation:** Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen.

**Skin Contact:** Wash immediately with soap and water. Can cause irritation.

**Eye Contact:** Rinse with copious amounts of water, for at least 15 minutes. Seek medical attention. May cause blindness.

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<b>Health:</b>	3	Severe
<b>Flammability:</b>	4	Extreme
<b>Reactivity:</b>	2	Moderate
<b>Contact:</b>	2	Moderate

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