

# SAFETY DATA SHEET

## SECTION 1 --- IDENTIFICATION

Product Name: Laboratory Proficiency Sample Ethanol Purity  
Common Synonyms: GC Proficiency sample  
Part numbers: LPS-EP  
Product Use: Analytical standards, Laboratory Reagent  
Restrictions: Not for human consumption. Intended for laboratory use only.

Manufacturer/Supplier:

**Bion Analytical**  
P.O. Box 85252  
Sioux Falls, SD 57118  
TEL: (605) 838-6679

**In Case of EMERGENCY Call INFOTRAC: (800) 535-5053**

## SECTION 2 --- HAZARD IDENTIFICATION

Signal Word: Danger

Hazard Statements: Highly flammable liquid and vapor.  
Causes serious eye irritation.  
Harmful if swallowed or inhaled.  
Causes skin irritation.  
May cause respiratory irritation.  
May cause drowsiness or dizziness.



Precautionary Statements: Keep away from heat/sparks/open flames/hot surfaces- No smoking.  
Keep container tightly closed.  
Wear protective gloves/clothing/eye and face protection.  
Store in a dry, well-ventilated area, keep cool.  
Wash thoroughly after use.  
Do not breathe vapor.  
Dispose contents according to state and federal regulations.

## SECTION 3 --- COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No./EC No.</u>	<u>Concentration (% w/w)</u>
Ethanol	64-17-5/200-578-6	≥90%
Heptane	142-82-5/205-563-8	3.5-9.5%
Methanol	67-56-1/200-659-1	< 1%

## SECTION 4 --- FIRST AID MEASURES

Emergency and First Aid Procedures

INGESTION: Rinse mouth with water. Do not induce vomiting. Seek immediate medical advice.

INHALATION: Supply fresh air. If required provide artificial respiration. Seek immediate medical advice.

SKIN CONTACT: Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.

EYE CONTACT: Rinse opened eye for at least 15 minutes under running water. Remove contact lenses. Seek immediate medical advice.

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## SECTION 5 --- FIRE-FIGHTING MEASURES

Fire Extinguishing Media: Water spray, dry chemical, alcohol foam, or carbon dioxide.

Toxic Gases Produced: Carbon monoxide and carbon dioxide.

Protective equipment: Wear self-contained breathing apparatus. Wear fully protective impervious suit.

## SECTION 6 --- ACCIDENTAL RELEASE MEASURES

### Steps to be Taken in the Event of a Spill or Discharge

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of according to local and federal regulations. Ensure adequate ventilation. Keep away from ignition sources.

## SECTION 7 --- HANDLING AND STORAGE

### Storage Requirements

Avoid eye and skin contact. Keep container tightly closed. Keep away from heat/sparks/open flames/hot surfaces. No smoking permitted in work area. Store in a dry, well-ventilated area, keep cool. Wash thoroughly after use.

## SECTION 8 --- EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA PEL (ethanol): TWA 1000 ppm  
NIOSH REL (ethanol): TWA 1000 ppm  
OSHA PEL (heptane): TWA 500 ppm  
OSHA PEL (methanol): TWA 200 ppm

Eye/Face Protection: Safety glasses  
Protective Clothing: Coat & Apron  
Protective Gloves: Chemical resistant gloves  
Ventilation Requirements: Well ventilated area or vent hood  
Breathing equipment: Use suitable respirator when high concentrations are present.

## SECTION 9 --- PHYSICAL and CHEMICAL PROPERTIES

Physical State: Liquid  
Appearance & Odor: Clear, colorless liquid, with alcohol-like sweet odor  
Boiling Point: Not determined  
Melting Point: Not determined  
Specific Gravity: 0.789 g/mL (Water = 1)  
Vapor Pressure (mmHg): 2.1  
Vapor Density (air=1): N/A  
Evaporation Rate: N/A  
Flash Point (Closed Cup): not determined  
Auto ignition Temperature: not determined  
Flammable Limits: Upper - not determined  
Lower - not determined

## SECTION 10 --- STABILITY AND REACTIVITY

Stability: Stable  
Conditions to Avoid: Heat, flames and sparks  
Incompatibles: Oxidizing agents, acids  
Decomposition Products: Carbon monoxide and Carbon dioxide

## SECTION 11 --- TOXICOLOGICAL INFORMATION

### Emergency Overview

Emergency Overview: Causes irritation to skin and eyes May affect liver, stomach and kidneys. Target Organs: Eyes, skin, central nervous system, liver, kidney, stomach. May cause irritation. May cause headaches, gastritis, intoxication. May cause temporary pain and blurred vision. May cause skin irritation, or prolonged skin contact causes drying and cracking of the skin.

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## Toxicity of components

LD<sub>50</sub> Oral, Rat: (Ethanol) 7,060 mg/kg; LD<sub>50</sub>, Inhalation vapor Rat: (Heptane) 103 g/m<sup>3</sup>; LD<sub>50</sub> Oral, Rat: (Methanol) 5,600 mg/kg  
Ethanol: RTECS# KQ6300000  
Heptane: RTECS# MI7700000  
Methanol: RTECS# PC1400000

Central nervous system depression including headaches, narcosis and heart damage are possible.

Not all chemical, physical and toxicological properties have been thoroughly investigated.

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## SECTION 12 --- ECOLOGICAL INFORMATION

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Do not release into environment.

Not all ecological information has been thoroughly investigated.

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## SECTION 13 --- DISPOSAL CONSIDERATIONS

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### Disposal Procedure

Dispose in accordance with all applicable federal, state, and local environmental regulations.

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## SECTION 14 --- TRANSPORT INFORMATION

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If shipping over exempt quantities.

### Domestic (D.O.T.)

Proper Shipping Name: Flammable liquids, n.o.s (ethanol, heptane)

UN #: UN1993

Packing Group: II

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## SECTION 15 --- REGULATORY INFORMATION

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### California Prop 65

This product contains methanol known to the State of California to cause developmental defects.

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## SECTION 16 --- OTHER INFORMATION

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Revision Date: 5/13/2015

N/A = Not Applicable or Not Available

N/E = Not Established

The information in this Material Safety Data Sheet meets the requirements of the United States OCCUPATIONAL SAFETY AND HEALTH ACT and regulations promulgated there under (29 CFR 1910.1200 et. seq.) and the Canadian WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM. This document is intended only as a guide to the appropriate precautionary handling of the material by a person trained in, or supervised by a person trained in, chemical handling. The user is responsible for determining the application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes.

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