

# Accelerated Analysis

PMB Q-310  
80 N Cabrillo Highway  
Half Moon Bay, CA 94019  
Phone: (650) 867-8443  
<http://AcceleratedAnalysis.com>

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## Material Safety Data Sheet

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### 1. Chemical Product and Company Identification

**Trade Name:** K18E Liquid Crystal

**Manufacturer:**

**Accelerated Analysis**

PMB Q-310

80 N Cabrillo Highway

Half Moon Bay, CA 94019

**Emergency Phone Number:** (650) 867-8443

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### 2. Composition / Information On Ingredients

Liquid Crystal BHD K18	CAS No. 41122-70-7	< 10%
Ethyl Alcohol	CAS No. 64-17-5	> 90%

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### 3. Hazards Identification

**Eyes:** Contact may cause eye irritation and possible burning.

**Skin:** Causes irritation.

**Ingestion:** May cause nausea, vomiting, and diarrhea.

**Inhalation:** Exposure over 1000 ppm causes headache, drowsiness, and loss of appetite.

**Chronic:** Possible liver damage and CNS effects.

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### 4. First Aid Measures

**Eyes:** Flush with water for 15 minutes. Get immediate medical attention.

**Skin:** Flush with water for 15 minutes.

**Ingestion:** If swallowed, drink water or milk. Get medical help.

**Inhalation:** Remove to fresh air.

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### 5. Fire Fighting Measures

**Flash Point:** 57°C

**Auto ignition:** 685.4°F (363°C)

**Extinguishing Media:** dry chemical, carbon dioxide, alcohol or polymer foam.

## 6. Accidental Release

Absorb spill with paper towel or other inert absorbent material.

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## 7. Handling and Storage

Keep away from heat. Keep away from sources of ignition. Use with adequate ventilation.  
Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.  
Store tightly closed container in a cool, dry, well ventilated area.

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## 8. Exposure Controls

Provide general or local exhaust ventilation.  
Wear safety glasses and protective gloves

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## 9. Physical and Chemical Properties

**Appearance:** colorless liquid  
**Odor:** ethereal odor  
**Odor Threshold:** 180 ppm  
**Vapor Density:** 1.59 (Air = 1)  
**Taste:** pungent, burning  
**Boiling Point:** 173°F  
**Melting Point:** -173°F  
**Evaporation Rate:** 2.7 (BuAc = 1)

**NFPA Ratings for Ethanol:** Health 2, Flammability 3, Reactivity 0

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## 10. Stability and Reactivity

**Chemical Stability:** stable

**Conditions to avoid:** high temperature, sources of ignition, strong oxidizers, acids, alkalis

**Hazardous Decomposition:** CO and/or CO<sub>2</sub>

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## 11. Toxicological Information

Lowest Published Dose/Conc: LDL Human Oral Dose: 1400 mg/kg

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## 12. Ecological Information

The product itself and its products of degradation are not toxic.

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## 13. Disposal Considerations

Waste must be disposed of in accordance with federal, state, and local environmental control regulations.

**14. Transport Information**

**Shipping Name:** Ethanol UN 1170

**Hazard Class:** 3 Flammable liquid

**Packing Group:** II (49 CFR 173.4 "small quantity exception")

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**15. Regulatory Information**

None of the chemicals in this product are under a Chemical Test Rule.

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**16. MSDS Creation Date:**

June 7, 2005

**NOTE:** Hazardous properties listed in this document are those of the major component, Ethanol.