

**MATERIAL SAFETY DATA SHEET**

According to OSHA Hazard Communication Standard, 29 CFR  
1910.1200

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**FOR CHEMICAL SPILLS, FIRES, OR EXPOSURE:  
CALL CHEMTREC (DAY OR NIGHT)  
+1-800-424-9300 (IN USA)  
+1-703-527-3887 (INTERNATIONAL)**

**SECTION 1. IDENTIFICATION**

Product name: Assay pH Indicator  
Code number: CH0002

CAS number: N/A; a blend

**SECTION 2. HAZARDS IDENTIFICATION**

NFPA: 1,3,0 (Health, Flammability, Reactivity)  
HMIS: 1,3,0 (Health, Flammability, Reactivity)  
See Section 5 for additional information

**GHS Label element**

Hazard pictograms



Signal word

Danger

Hazard statement(s)  
H225  
H319

Highly flammable liquid and vapour.  
Causes serious eye irritation.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS #	Concentration
Ethanol	64-17-5	80.0 % (v/v)
Water	-----	19.9 % (v/v)
Thymolphthalein	114553	0.1 % (w/v)

**All physical and chemical data refer to ethanol**

#### **SECTION 4. FIRST-AID MEASURES**

- Eye Exposure: Flush eyes with copious amounts of water and separate eyelids to assure adequate flushing; slightly irritating, but does not injure eye tissue.
- Skin exposure: Flush with copious amounts of water; may aggravate an existing dermatitis.
- Oral exposure: If swallowed, wash mouth with water provided that person is conscious; do not induce vomiting; call a physician; minimal toxicity.
- Inhalation: Remove to fresh air; if breathing becomes difficult, call a physician; may cause headache, dizziness, anesthesia, drowsiness, unconsciousness, and death by asphyxiation.

#### **SECTION 5. FIRE FIGHTING MEASURES**

- Flammability: Flash point 57 ° F (closed cup); container explosion may occur under fire conditions.
- Extinguishing media: Water spray, foam, dry chemical powder, or carbon dioxide.
- Protective equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with eyes and skin.
- Specific hazards: Can emit toxic fumes under fire conditions.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Precautions: Avoid contact with eyes and skin, and avoid inhalation of aerosols.
- Clean up: Absorb with an inert material; place in closed containers; ventilate area; clean spill site and dispose of waste according to applicable Federal, State and Local regulations.

#### **SECTION 7. HANDLING AND STORAGE**

- Handling: Avoid contact with eyes, skin and clothing, and avoid inhalation of aerosols.
- Storage: Keep containers tightly closed and store at room temperature.

#### **SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

- Exposure Limits, USA: OSHA: PEL: 8 TWA 1000 PPM (1900 MG/M3)  
ACGIH: TWA: 1000 PPM  
MSHA Standard-air: 1000 PPM (1900 MG/M3)
- Protective Equipment: Protective gloves and safety goggles.
- Hygiene Measures: Wash thoroughly after handling.
- Engineering Controls: Safety shower, eye bath and ventilation exhaust

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance: Clear liquid.
- Boiling point: 78-80 ° C
- Specific gravity: 0.79 at 20 ° C (H<sub>2</sub>O = 1.0)

**SECTION 10. STABILITY AND REACTIVITY**

Stability: Stable  
Materials to avoid: Alkali metals, ammonia, oxidizing agents and peroxides  
Hazardous polymerization: Does not occur

**SECTION 11. TOXICOLOGICAL INFORMATION**

Exposure: May cause irritation of eyes, nasal membranes, mucous membranes, upper respiratory tract and skin. If ingested, might be harmful.  
Signs and symptoms: Can cause CNS depression and chronic exposure to high levels may cause damage to the heart and liver

**SECTION 12. ECOLOGICAL INFORMATION**

Data is not yet available.

**SECTION 13. DISPOSAL CONSIDERATIONS**

See Section 6. In all cases, disposal should follow all applicable Federal, State and Local regulations.

**SECTION 14. TRANSPORT INFORMATION**

DOT: Proper shipping name: Ethanol Solutions, or Ethyl Alcohol Solutions  
UN # 1170 Class: 3 Packing Group II Flammable Liquid Not PIH  
IATA: Same as DOT

**SECTION 15. REGULATORY INFORMATION:**

United States: SARA listed: No TSCA Inventory Item: Yes  
Canada: WHMIS: Classified in accordance with the CPR, and the MSDS contains all of the information required by the CPR. DSL: Yes NDSL: No

**SECTION 16. OTHER INFORMATION**

Disclaimer: For commercial and laboratory uses only. Not for drug, or other uses.  
Warranty: The above information is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge, and is applicable to the product only with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. CBG Biotech, Ltd. shall not be liable for any damage resulting from handling, or from contact with the product. See reverse sides of invoice, for additional terms and conditions of sale.