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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)

MATERIAL SAFETY DATA SHEET

Section 1. Product Identification:

Product name:	Assay pH Indicator	CAS number:	64-17-5 (Ethanol)
Code number:	CHEM002	SARA 313:	No

Section 2. Composition/Information on Ingredients:

Product: 0.1 % (w/v) thymolphthalein in 80 % (v/v) denatured ethanol.
All physical and chemical data refer to ethanol.

Section 3. Hazards Identification:

NFPA: 2,3,1 (Health, Flammability, Reactivity)
HMIS: 2,3,1 (Health, Flammability, Reactivity)
See Section 11 for additional information

Section 4. First Aid Measures:

Eye Exposure: Flush eyes with copious amounts of water for 3-15 minutes; separate eyelids to assure adequate flushing; call a physician.
Skin exposure: Flush with water.
Oral exposure: If swallowed, wash mouth with water provided that person is conscious; call a physician.
Inhalation: Remove to fresh air; if breathing becomes difficult, call a physician.

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 adsorbent; place in closed containers; ventilate area; wash down spill site with water; dispose of 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 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 (H₂O = 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:

All disposal should follow 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 analytical and laboratory use only. Not for drug, or beverage consumption.
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.