

# Safety Data Sheet

## 1. IDENTIFICATION:

**Product Name:** PH 10.00 REFERENCE BUFFER (Blue)  
**Synonyms:** N/A  
**CAS Number:** Mixture  
**Catalog Numbers:** 10003 10006  
**Product Use:** Analytical / Laboratory Reagent  
**Manufacturer:** HF Scientific, Inc  
**Address:** 3170 Metro Parkway Fort Myers, Fl 33916


**General Information:** 888-203-7248  
**Transportation Emergency Number:** CHEMTREC® 24 hr US 800-424-9300  
 CHEMTREC® 24 hr International 703-527-3887

## 2. HAZARDS IDENTIFICATION

### GHS Classification

| Health   | Environmental          | Physical             |
|--|------------------------|----------------------|
| Acute Toxicity: Category 4<br>Skin Irritation: Category 2<br>Eye Irritation: Category 2A | Aquatic Toxicity: None | Flammable Liquid: No |

### GHS Label

| Pictogram:  | Signal Word:   |
|---|--|
|   | <b>WARNING</b>   |
| Hazard Statements   | Precautionary Statements   |
| Harmful if swallowed<br>Harmful in contact with skin<br>Harmful if inhaled<br>Causes skin irritation<br>Causes serious eye irritation | IF SWALLOWED DO NOT INDUCE VOMITING. Give Large Quantities of Water. Never Give Anything By Mouth to an Unconscious Person. Get Medical Attention.<br>IF ON SKIN Immediately Flush Skin with Plenty of Water for at Least 15 Minutes While Removing Contaminated Clothing and Shoes. Wash Clothing Before Reuse.<br>IF INHALED Remove to Fresh Air. If Not Breathing, Give Artificial Respiration. If Breathing is Difficult, Give Oxygen. Get Medical Attention.<br>IF IN EYES Immediately Flush Eyes with Plenty of Water for at Least 15 Minutes. Get Medical Attention Immediately.<br>DISPOSE of contents/container in accordance with local, regional, national and international regulations. |

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Component           | Cas Number | Weight % |
|---------------------|------------|----------|
| Deionized Water     | 7732-18-5  | > 98%    |
| Boric Acid          | 10043-35-3 | < 1%     |
| Potassium Hydroxide | 1310-58-3  | < 1%     |
| FD & C Blue No. 1   | N/A        | < 0.1%   |

## 4. FIRST AID MEASURES

**Eye Contact:** Immediately Flush Eyes with Plenty of Water for at Least 15 Minutes. Get Medical Attention Immediately.

**Skin Contact:** Immediately Flush Skin with Plenty of Water for at Least 15 Minutes While Removing Contaminated Clothing and Shoes. Wash Clothing Before Reuse.

**Inhalation:** Remove to Fresh Air. If Not Breathing, Give Artificial Respiration. If Breathing is Difficult, Give Oxygen. Get Medical Attention.

**Ingestion:** If Swallowed, DO NOT INDUCE VOMITING. Give Large Quantities of Water. Never Give Anything By Mouth to an Unconscious Person. Get Medical Attention.

## 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Use Any Means Suitable for Extinguishing Surrounding Fire

**Fire Fighting Procedures:** N/A

**Unusual Fire and Exposure Hazards:** Potassium Oxide May Form When Heated to Decomposition.

**Combustion Products:** Potassium Oxide May Form When Heated to Decomposition.

**NFPA Classification** HEALTH: 2 FLAMMABLE: 0 REACTIVITY: 1

## 6. ACCIDENTAL RELEASE MEASURES

Ventilate Area of Leak or Spill. Wear Appropriate Personal Protective Equipment as Specified in Section 8. Collect Liquid in Appropriate Container or Absorb with an Inert Material and Place in a Chemical Waste Container for Pickup.

## 7. HANDLING AND STORAGE

**Handling:** Use Personal Protective Equipment in Section 8.

**Storage:** Keep in a Tightly Closed Container. Store in a Cool, Dry, Ventilated Area. Protect Against Physical Damage.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Limits:** Not established

**Engineering Controls:** Maintain General Industrial Hygiene Practices When Using This Product.

**Personal Protective Equipment:**

**Eyes:** Safety glasses

**Skin:** Lab Coat, and Latex or Nitrile Gloves

**Respiratory:** N/A

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Flashpoint:** N/A

**Autoignition Temperature:** N/A

**Boiling Point:** - 100°C (212 °F)

**Melting Point:** N/A

**Vapor Pressure:** N/A

**Vapor Density:** N/A

**% Solubility in Water:** Soluble

**Pour Point:** N/A

**Molecular Formula:** Mixture

**Odor / Appearance:** Odorless Blue Liquid

**Lower Flammability Limit:** N/A

**Upper Flammability Limit:** N/A

**Specific Gravity:** 1

**% Volatile:** N/A

**Evaporation Rate (Water=1):** N/A

**Viscosity:** N/A

**Octanol / Water Partition Coefficient:** N/A

**pH:** 10.0

**Molecular Weight:** Mixture

## 10. STABILITY AND REACTIVITY

**Stability / Incompatibility:** Product Stable Under Normal Handling and Storage Conditions

**Hazardous Reactions / Decomposition Products:** No Hazardous Polymerization Will Occur. Potassium Oxide May Form When Heated to Decomposition.

## 11. TOXICOLOGICAL INFORMATION

**Symptoms of Overexposure:** Irritation of skin, eye and respiratory tract.

**Acute Effects:** Irritation of skin, eye and respiratory tract.

**Eye Contact:** Irritation of eye.

**Skin Contact:** Irritation of skin

**Inhalation:** Irritation of respiratory tract.

**Ingestion:** Irritation of the gastrointestinal tract.

**Target Organs Effects:** Eyes, Skin and Respiratory Tract

**Chronic Effects:** Development of Dermatitis With Prolonged Contact May Occur.

**Medical Conditions Aggravated by Exposure:** Pre-Existing Eye or Skin Disorders, or Persons With Impaired Respiratory Function May Be More Susceptible to the Effects of the Substance.

**Acute Toxicity Values:** N/A

## 12. ECOLOGICAL INFORMATION

No Ecological Data Available

## 13. DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with Federal, State and Local Regulations.

## 14. TRANSPORT INFORMATION

**US DOT (United States Department of Transportation):** Not regulated

**IATA (International Air Transport Association):** Not regulated

**IMO (International Maritime Organization):** Not regulated

## 15. REGULATORY INFORMATION

**CERCLA:** None listed

**SARA/Title III:** Acute: Yes Chronic: Yes Fire: No Pressure: No Reactivity: No

**TSCA Inventory:** Listed

**Cal. Proposition 65:** None

**WHMIS:** N/A

**DSL:** Listed

**NDSL:** N/A

**16. OTHER INFORMATION**

THE ABOVE INFORMATION IS BELIEVED TO BE ACCURATE AND REPRESENTS THE BEST INFORMATION CURRENTLY AVAILABLE TO US. ALL PRODUCTS ARE OFFERED IN ACCORDANCE WITH THE MANUFACTURER'S CURRENT PRODUCTION SPECIFICATIONS AND ARE INTENDED SOLELY FOR USE IN ANALYTICAL TESTING. THE MANUFACTURER SHALL IN NO EVENT BE LIABLE FOR ANY INJURY, LOSS OR DAMAGE RESULTING FROM THE HANDLING, USE OR MISUSE OF THESE PRODUCTS.

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