

Material Safety Data Sheet

1. PRODUCT IDENTIFICATION: pH 10 Reference Buffer

Catalog Numbers-HF scientific: 10003 10006 10224

PRODUCT USE: Analytical / Laboratory Reagent

NFPA RATINGS: HEALTH: 3 FLAMMABILITY: 0 REACTIVITY: 1

2. HAZARDS IDENTIFICATION

TARGET ORGANS: Eyes, Skin, Gastrointestinal Tract, Respiratory System
 ACUTE TOXICITY: Corrosive Liquid. Eye and Skin Irritant. May Be Corrosive to Eye and Skin Tissue. May Be Toxic if Ingested.
 CHRONIC TOXICITY: 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.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component		Percent
Component	Boric Acid	
CAS No.	10043-35-3	<1
Component	Potassium Hydroxide	
CAS No.	1310-58-3	<1
Component	FD & C Blue No.1	
CAS No.	NA	<0.1
Component	Deionized Water	
CAS No.	7732-18-5	>98

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

FLASH POINT: NA AUTOIGNITION POINT: NA
 FLAMMABILITY LIMITS: UPPER: NA LOWER: NA
 EXTINGUISHING MEDIA: Not Considered to be an Fire Hazard. Use Any Means Suitable for Extinguishing Surrounding Fire.

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: Wear Proper Personal Protective Equipment as Specified 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: Potassium Hydroxide: ACGIH TLV STEL/CEIL 2mg/m³
 NIOSH (RELs) STEL/CEIL 2mg/m³
 Boric Acid: ACGIH TLV STEL/CEIL 6mg/m³
 ACGIH TLV TWA 2mg/m³

PERSONAL PROTECTION: Utilize Personal Protective Equipment Such as Safety Glasses/Splash Goggles, Latex or Nitrile Gloves, and Lab Coat.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid
 APPEARANCE: Blue Liquid
 ODOR: Odorless
 SOLUBILITY: Soluble in Water
 SPECIFIC GRAVITY: 1.0
 pH: 10

BOILING POINT: 100°C (212 °F)

10. STABILITY AND REACTIVITY

Stable Under Normal Handling and Storage Conditions. Hazardous Polymerization Will Not Occur. Potassium Oxide May Form When Heated to Decomposition.

11. TOXICOLOGICAL INFORMATION

Route of Exposure: Eyes, Skin, Inhalation, Ingestion
 Teratogen Status: None Found
 Mutagen Status: Potassium Hydroxide Investigated as a Mutagen
 Reproductive Toxicity: None Found
 Carcinogen Status: None Found

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

D.O.T.
 Proper Shipping Name: Corrosive Liquid, Basic, Inorganic (Potassium Hydroxide)
 Hazard Class: 8
 UN Number: UN3266
 Packing Group: III

15. REGULATORY INFORMATION

EUROPEAN INFORMATION:
 EC Inventory: Listed

US / CANADA INFORMATION:

DSL: Listed
 SARA/Title III Section 302: None Listed
 SARA/Title III Section 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No
 Reactivity: No
 US TSCA Inventory: Listed

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.