DATE: March 10, 2004  REVISION: 6

MATERIAL SAFETY DATA SHEET
HF scientific, Inc.
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CHEMTREC
1-800-424-9300
Mon-Fri 8:00 am - 4:40 pm

SECTION 1 PRODUCT IDENTIFICATION:
PRODUCT NAME: PH 4.00 REFERENCE BUFFER (COLORED)
CATALOG NUMBER: 10001, 10004, 10220
CHEMICAL FAMILY: PH BUFFER
SYNONYMS: NONE
Formula: POTASSIUM HYDROGEN PHTHALATE, PRESERVATIVE & DYE

SECTION 2 HAZARDOUS INGREDIENTS
NONE

SECTION 3 PHYSICAL DATA
Boiling Point: Approx. 100°C, 212°F
Solubility In Water: Completely miscible
Vapor Pressure (mm Hg.): N/A
Melting Point: Approx. 0°C, 32°F
Appearance And Odor: Red liquid
Vapor Density (AIR=1): N/A
Specific Gravity (H2O=1): Approx. 1
Percent Volatile By Volume: Similar to water
Evaporation Rate: Similar to water

SECTION 4 FIRE AND EXPLOSION HAZARD DATA
Flash Point: N/A
Flammable Limits: None
LEL: N/A  UEL: N/A
Fire Extinguishing Media: Use media appropriate to cause of fire.
Fire Fighting Procedures: N/A
Unusual Fire And Explosion Hazards: None

SECTION 5 HEALTH EFFECTS AND FIRST AID
Route(s) Of Entry: Inhalation? Yes  Skin? Yes  Ingestion? Yes
Health Hazards (Acute and Chronic): None
Signs And Symptoms Of Exposure: None
Medical Conditions Generally Aggravated By Exposure: N/A
EMERGENCY AND FIRST AID PROCEDURES:
Eyes: Immediately flush eyes gently with copious quantities of water for a minimum of 15 minutes. Use fingers to assure that eyelids are separated and that eye is being irrigated. Call a physician.
Skin: Remove contaminated clothing. Flush contaminated area with copious quantities of water for 15 minutes. Call a physician.
Ingestion: Do not induce vomiting. Seek medical attention promptly. If vomiting occurs, take steps to avoid aspiration of vomited material into the respiratory tract. To prevent choking, position body so that material is freely ejected. Give milk, water containing milk of magnesia or olive oil.
Inhalation: Move patient immediately to uncontaminated atmosphere.

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SECTION 6 REACTIVITY DATA
Stability: Stable
Conditions To Avoid: None
Incompatibilities: None known.
Hazardous Decomposition Products: None
Hazardous Polymerization: Will not occur.

SECTION 7 SAFE HANDLING AND USE
Steps To Be Taken In Case Material Is Released Or Spilled: Soak up with absorbent material.
Waste Disposal Method: Dispose of in accordance with local, state, and federal regulations or contact an approved with licensed disposal agency.
Precautions To Be Taken In Handling & Storage: Use normal safe chemical handling procedures.
Other Precautions: None.

SECTION 8 CONTROL MEASURES
Respiratory Protection: None required.
Ventilation Systems: General mechanical ventilation satisfactory for normal use.
Skin Protection: Rubber gloves.
Eye Protection: Safety glasses.
Other Protective Equipment: Maintain eye wash fountain and quick-drench facilities in work area.

Except in minor cases of exposure without symptoms, seek medical advise promptly.