

## MATERIAL SAFETY DATA SHEET

80 Northwest Boulevard Nashua, NH 03063 1-800-225-3739

MSDS No.: BB0404 BBR404 Effective Date: January 1, 2007

### 24 HOUR EMERGENCY ASSISTANCE

SECTIO	NI NAME	24 HOUR	EME	RGENC	ASSIS	SIANC
Product	Buffer Solution (pH 4)		CI	HEMTREC		
Chemical	Buffer Aqueous Solution		<u>80</u>	0-424-9300	Health	0
Synonyms	Bullet Aqueous Solution	 $  \vee \rangle$	/ Day	585-226-617	7 Fire	0
Formula	Mixture.	NFP/	4		Reacti	vity 0
Unit Size	up to 20 Lt.	HAZARD	RATING			MIS *
C.A.S. No.	Mixture.	MINIMAL 0	SLIGHT	MODERATE 2	SERIOUS 3	SEVERE 4

SECTION II	INGREDIENTS OF MIXT	URES	
Principal Component(s	s)	%	TLV Units
Potassium acid phthala	te: (CAS No. 877-24-7)	0.718-1.079%	None established.
Sodium hydroxide: (CA	AS No. 1310-73-2)	0.195-0.158%	Ceiling: 2 mg/m³ (Air)
Water: (CAS No. 7732	2-18-5)	Approx. 98%	None established.
CAUTION! USE IN KE	EPING WITH GOOD LABORATORY PRA	CTICES.	

<b>SECTION III</b>	PHYSICAL DATA				
Melting Point (°F)	Freezes approx. 0°C (32°F)	specific Gravity ( $H_2O = 1$ )			
Boiling Point (°F)	100°C (212°F)	Percent Volatile by Volume (%)	98% +		
Vapor Pressure (mm Hg)	14 (water)	Evaporation Rate ( Water =1)	> 1.		
Vapor Density (Air=1)	0.7 (water)				
Solubility in Water	Complete.				
Appearance & Odor C\lear liquid; no odor. May contain red dye.					

SECTION	NIV FIRE AN	ID EXPLOSION HAZAF	RD DATA	
Flash Point (Method Used)	Non-combustible.	Flammable Limits in Air % by Volume N/A	Lower	Upper
Extinguisher Media	Use any media suitable for	extinguishing supporting fire.		

# SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

# UNUSUAL FIRE AND EXPLOSION HAZARDS

In fire conditions, water may evaporate from this solution, which may cause hazardous decomposition products to be produced as dust or fume.

D.O.T. NON-REGULATED.
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D.O.1.	NON REGOEXTES.
Approved by	U.S. Department of Labor "essentially similar" to form OSHA-20

### SECTION V HEALTH HAZARD DATA BB0404

Threshold Limited Value None assigned to this mixture.

Toxicity: Potassium Acid Phthalate - none listed; Sodium Hydroxide: ipr-mus LD50: 40 mg/kg; orl-rbt LDLo: 500 mg/kg.

### **Effects of Overexposure**

Due to the high dilution of this solution it is not considered to be a hazardous material. Contact with skin and eyes may produce irritation. Ingestion may be harmful. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated. Exercise appropriate procedures to minimize potential hazards. Target organs: None known.

Emergency and First Aid Procedures

<u>INGESTION:</u> Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give

anything by mouth to an unconscious person. **EYES:** Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SECTIO	N VI	R	EACTIVITY DATA		
Stability	Unstable		Conditions to Avoid	Excessive temperature to cause	
<u> </u>	Stable	Х		evaporation.	
Incompatibility (Materials to Avoid)		Acids	, alkalies, and air will change	the buffer's ability.	
Hazardous Decomposition Products		ducts	Thermal decomposition will yield carbon oxides.		
Hazardous Polymerization		tion	Conditions to Avoid		
May Occur Will Not Occur		ot Occur	Not applicable.		
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#### SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled

Flush to sewer with copious amounts of water. Wash spill area with soap and water.

**Waste Disposal Method** 

Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.

Flush to sewer with copious amounts of water.

SECTION V	/III	SP	SPECIAL PROTECTION INFORMATION					
Respiration Protect (Specify Type)	tion !	None needed vork in ventila	ne needed in normal laboratory handling. If misty conditions prevail, rk in ventilation hood or wear a NIOSH/MSHA approved respirator.					
Ventilation	Local Ex	haust	None required.		Special		No.	
ventilation	Mechani	cal (General)	None required.		Other	Other No.		
Protective Gloves		Rub	ber.	Eye Protection		Chemical safety glasses.		
Other Protective Equipment	it, proper gloves, an	d eye	wash sta	ition.				
SECTION IX SP			<b>ECIAL PREC</b>	ΑU	TIONS			
Precautions to be Taken								

Precautions to be Taken in Handling & Storing

Keep container tightly closed when not in use.

Store in a cool, dry place. Wash thoroughly after handling.

Other Precautions

Read label on container before using. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Remove and wash contaminated clothing.

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