

SAFETY DATA SHEET

1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME:	Buffer Solution, pH Reference Standard, pH 10.0 ± 0.02 at 25° C, Color Coded Blue	
PRODUCT NUMBER:	B237	
COMPANY INFO:	<i>Phyto</i> Technology Laboratories® PO Box 12205, Shawnee, KS 66282-2205 Phone: 1-888-749-8682 or 1-913-341-5343; Fax: 1-888-449-8682 or 1-913-341-5442 www.phytotechlab.com	
EMERGENCY PHONE NUM	IBER: 1-800-535-5053 - US Only 1-352-323-3500 - International	
RECOMMENDED USE:	For Research Use Only	
RESTRICTIONS ON USE:	Products sold by <i>Phyto</i> Technology Laboratories® are intended for research and laboratory us only. Products are not to be used as human or animal therapeutics, cosmetics, agricultural or pesticidal products, food additives, or as household chemicals.	

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification:

Not a hazardous substance or mixture

GHS Label elements, including hazard and precautionary statements:

Pictogram:



Hazard Statements:

H302 - Harmful if swallowed.

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.

Warning Signal Word:

Precautionary Statements:

P280 - Wear protective gloves/protective clothing/eye protection. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Percent	Hazardous
Sodium Carbonate, Anhydrous	497-19-8	<1 %	No exposure limits established by OSHA or ACGIH
Sodium Bicarbonate	144-55-8	<1 %	No exposure limits established by OSHA or ACGIH
Patent Blue A	3486-30-4	<1 %	No exposure limits established by OSHA or ACGIH
Dowicide 75	4080-31-3	0.05 %	No exposure limits established by OSHA or ACGIH
Water	7732-18-5	97-99 %	No exposure limits established by OSHA or ACGIH

4. FIRST AID MEASURES

General Advice:

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

use

Route of Entry	Symptoms	First Aid Procedures
Ingestion	May cause irritation if swallowed	If swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. Get medical attention.
Inhalation	May cause irritation to respiratory tract	Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. Get medical attention.
Eye Contact	Direct contact may cause irritation. May cause redness, tearing, or blurred vision.	Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation persists.
Skin Contact	Irritating. May cause reddening, itching or inflammation.	Wash area thoroughly with soap and water. Remove and wash contaminated clothing. Get medical attention if irritation persists.

Most Important Symptoms or Effects, Both Acute and Delayed:

See section 2 and/or section 11

Recommendation for Immediate Medical Care and Special Treatment Needed:

No data available

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use extinguishing media suitable for surrounding fire.
Special Protective Equipment and Precaution for Firefighters:	In the event of a fire, wear full protective clothing and NIOSH approved self- contained breathing apparatus. Evacuate the area and fight fire from a safe distance.
Hazardous Combustion Products:	May emit toxic fumes under fire conditions.
Toxic Gases Produced:	None known

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protection recommended in Section 8. Avoid breathing vapors, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas.

Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Method of Containment and Cleanup:	Clean-up personnel should wear proper protective equipment and clothing. Contain spilled material and do not let product enter drains. Soak up with inert absorbent material and place in a suitable, closed container for disposal in accordance with all local, state/provincial, and national requirements. Ventilate the area if necessary.
7. HANDLING AND STORAGE	
Precaution for Safe Handling:	Avoid contact with skin and eyes. Avoid incompatible substances. Wash thoroughly after use.
Conditions for Safe Storage:	Keep in a tightly closed container and store in a cool, dry, and well-ventilated area.
Incompatibilities:	No data available
Recommended Storage Temperature:	Room Temperature

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Threshold Limit Values (TLVs): No data available

Handle in accordance to general industrial hygiene and safety practice.

Personal Protective Equipment (PPE):

Eye/Face Protection:	Chemical safety glasses or goggles. Have eye-washing facilities readily available where eye contact can occur.
Skin Protection:	Protective gloves
Body Protection:	Lab coat
Respiratory Protection:	Respiratory protection is not required. Use N95 (US) or type P1 (EN 143) dust mask where dust level is nuisance. A NIOSH/MSHA approved air purifying respirator is recommended where airborne concentrations are expected to exceed exposure limits. Protection provided by purifying respirators is limited.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, yellow liquid				
pH:	6.98 – 7.02				
		Miscible with Water			
Solubility:					
Melting Point:	No data a				
Vapor Density:	No data a	available			
Vapor Pressure:	No data a	available			
Odor:	Odorless				
Odor Threshold:	No data a	available			
Viscosity:	No data a	available			
Relative Density:	~1 g/cm ³	3			
Evaporation Rate:		No data available	No data available		
Initial Boiling Point and Boiling Range:		No data available			
Flammability (solid,	gas):	No data available			
Partition coefficient: n-octanol/water):		No data available			
Auto-ignition Tempe	Auto-ignition Temperature: No data				
Decomposition Temp	perature:	No data available			
Flash Point (Closed C	Cup):	No data available			
Flammable Limits:		Upper (%) – No data available	Lower (%) – No data available		
10. STABILITY AND REACTIVITY					
Reactivity:		No data available			
Chemical Stability:		Stable under normal cond	Stable under normal conditions of use		
Possibility of Hazard Reactions:		S: Will not occur			

Incompatibles Materials: No data available

Hazardous Decomposition Products: No hazardous decomposition products are known

No data available

11. TOXICOLOGICAL INFORMATION

Toxicity:	LD ₅₀ (Oral-Rat)(mg/Kg):	No data available
	LD ₅₀ (Oral-Mouse)(mg/Kg):	No data available
	LD ₅₀ (Dermal-Rabbit)(mg/Kg):	No data available

Conditions to Avoid:

Carcinogenicity:	NTP: No		
	IARC:	No	
	Z List:	No	
	OSHA Reg:	No	
Reproductive Toxicity:	No data availab	le	
Symptoms Associated with Overexposure:	Irritation, itchin	g, gastroii	ntestinal upset, nausea, vomiting
Specific Target Organ Toxicity:	Single Exposure:		No data available
Toxicity.	Repeated Expos	sure:	No data available
Target Organs:	None identified		
Medical Conditions Aggravated By Exposure:	None identified		
Routes of Entry:	Skin and eye contact		
NIOSH/RTECS NO:	Not listed		

No data available

The toxicological properties of this product have not been thoroughly investigated

12. ECOLOGICAL INFORMATION

Ecotoxicity:

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Persistence and Degradability: No		No data ava	No data available			
Bioaccumulative Potential:		No data ava	No data available			
Mobility in Soil:		No data ava	No data available			
Other Adverse Effects	s:	No data ava	No data available			
			Dispose in accordance with all applicable federal, state, and local environmental			
EPA Hazardous Wast	e Number:	No data ava	ilable			
14. TRANSPORT II	NFORMATI	ON				
Domestic (D.O.T.):	Proper Ship	ping Name:	CHEMICALS, N.O.S. (NON-REGULATED)			
	Hazard Clas	58:	N/A			
	UN/NA: Labels:		N/A			
			N/A			
International:						
IMDG:	Proper Shipping Name:		CHEMICALS, N.O.S. (NON-REGULATED)			
	Hazard Clas	ss:	N/A			
	UN/NA:		N/A			
	Labels:		N/A			
IATA:	Proper Ship	ping Name:	CHEMICALS, N.O.S. (NON-REGULATED)			
	Hazard Clas	SS:	N/A			
	UN/NA:		N/A			
Labels:			N/A			

15. REGULATORY INFORMATION

TSCA:	No
SARA TITLE III:	
Section 302 (EHS) Ingredients:	No
Section 313 Ingredients:	No
Section 304 (EHS/CERCLA) Ingredients:	No
Section 311/312 Hazard:	No SARA Hazards
Massachusetts Right to Know Components:	No components are subject to the Massachusetts Right to Know Act.
California Prop. 65 Components:	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

HMIS Rating:	Health Hazard	Chronic Health Hazard	Flammability	Physical Hazard
	0		0	0
NFPA Rating:	Health Hazard	Fire Hazard	Reactivity Hazard	Special Hazard
	0	0	0	

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