

MATERIAL SAFETY DATA SHEET

Section 1. Identification of the Product			
Product Name or Identity:	Butterfield's Phosphate Buffer		
Manufacturer's Name:	Neogen Corporation	Emergency Phone No.:	517/372-9200
	620 Lesher Place	Fax No.:	517/372-0108
	Lansing, MI 48912	e-mail:	neogen-info@neogen.com
Date Prepared or Revised: January 2008			

Section 2. Hazardous Ingredients / Identity Information				
Hazardous Components	CAS-No.	%	EG-Number	Hazard Symbol
Specific Chemical Identity:				
This product contains no hazardous constituents, or the concentration of all chemical constituents are below the regulatory threshold limits described by Occupational Safety Health Administration Hazard Communication Standard 29 CFR 1910.1200 and the European Directive 91/155/EEC, and 93/112/EC.	N/A	N/A	N/A	N/A

Section 3. Health Hazard Identification			
Route(s) of Entry:	Inhalation? N/A	Skin? N/A	Ingestion? N/A
Health Hazards: <i>(Acute and Chronic)</i>	No irritating effect. When used and handled according to specifications, the product does not have harmful effects according to the information provided to us. May cause minor irritation of the eyes and skin.		
Carcinogenicity:	IARC Monographs? No	OSHA Regulated? No	
Signs and Symptoms of Exposure: No irritating effect, however contact may cause a mild irritation.			
Medical Conditions Generally Aggravated by Exposure: No sensitizing effects known.			

Section 4. First Aid Measures	
Emergency / First Aid Procedures:	Ingestion: If swallowed, rinse mouth with water and seek medical attention.
	Inhalation: Supply fresh air and oxygen. If breathing is difficult, seek medical attention.
	Eye Contact: Rinse opened eye for at least 15 minutes with plenty of water. Seek medical attention.
	Skin Contact: Wash thoroughly with soap and water. Seek medical attention if irritation develops.

Section 5. Fire and Explosion Hazard Data	
Flash Point (Method Used): N/A	Flammable Limits: N/A
Safety Phrases: N/A	
Extinguishing Media: Suitable extinguishing agents. CO ₂ , extinguishing powder, or water spray. Water may be effective for cooling, but may not effect extinguishment.	
Special Fire Fighting Procedures: Fight larger fires with water or alcohol resistant foam. Firefighters should wear protective equipment and self-contained breathing apparatus.	
Unusual Fire and Explosion Hazards: During heating or in case of fire, poisonous gases are produced. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source, is a potential dust explosion hazard.	

Section 6. Accidental Release Measures

Accidental Release Measures: Shut off all sources of ignition. Wear respirator, chemical safety goggles, rubber boots, and rubber gloves. Absorb material, ventilate area, and wash spill site after material has been cleaned up.

Waste Disposal Method: Dispose in accordance with all applicable federal, state, and local environmental regulations. Used material should be handled as potentially infectious and autoclaved or incinerated prior to disposal.

Section 7. Handling and Storage

Handling and Storing: Keep container tightly closed. Keep away from heat, sparks, and open flame.

Other Precautions: Remove contaminated clothing immediately. Ensure good ventilation / exhaustion at the workplace. Prevent formation of dust.

Section 8. Exposure Controls / Personal Protection

OSHA PEL: N/A

ACGIH TLV: N/A

Respiratory Protection (Specify Type): None required where adequate ventilation conditions exist.

Ventilation:

Local Exhaust: 50 – 100 CFM

Special: N/A

Mechanical (General): N/A

Other: N/A

Protective Gloves: Proper disposable gloves

Eye Protection: Safety goggles

Other Protective Clothing or Equipment: Uniform, lab coat, or disposable lab wear.

Work / Hygienic Practices: Follow the usual precautionary measure for handling chemicals / powder. Keep away from food and beverages. Immediately remove all soiled and contaminated clothing. Avoid contact with eyes, skin, and clothing.

Section 9. Physical and Chemical Properties

Boiling Point: N/A

Specific Gravity (H₂O = 1): N/A

Vapor Pressure (mm Hg.): N/A

Melting Point: N/A

Vapor Density (AIR = 1): N/A

Evaporation Rate (Butyl Acetate = 1): N/A

Solubility in Water: N/A

Appearance and Odor: N/A

Section 10. Stability and Reactivity

Stability:

Unstable

Conditions to Avoid: Stable under normal temperatures and pressure.

Stable

X

Incompatibility (Materials to Avoid): Strong oxidizers.

Hazardous Decomposition or Byproducts: Oxides of carbon and nitrogen.

Hazardous Polymerization:

May Occur

Conditions to Avoid: No dangerous reactions known.

Will Not Occur

X

Section 11. Toxicological Information

When used and handled according to specifications and according to information provided for us, this product does not have any harmful effects.

Section 12. Ecological Information

Ecotoxicity Tests: The ecological effects have not been thoroughly investigated, but currently none have been identified.

Section 13. Disposal Information

Recommendation: Dispose in accordance with all applicable federal, state, and local environmental regulations.

Section 14. Transport Information

UN # -*-

Class: --

Packing Group: --

Hazard Class: --

IATA: Non-Hazardous for Air Transport

*This product is not regulated for transportation.

Section 15. Regulatory Information

Not Applicable.

Section 16. Other Information

This document is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. Neogen Corporation shall not be held liable for any damage resulting from handling or from contact with the above product. These suggestions should not be confused with state, municipal or insurance requirements, and constitute NO WARRANTY.