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## MATERIAL SAFETY DATA SHEET

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**1. CHEMICAL IDENTIFICATION**

Product Name: 10X PBS Buffer  
Catalog Number: S-4017-002

**2. COMPOSITION/INGREDIENTS**

| <u>Ingredient name:</u>     | <u>CAS Number:</u> | <u>%:</u> |
|-----------------------------|--------------------|-----------|
| Sodium Phosphate, Dibasic   | 7558-79-4          | 25-45     |
| Sodium Chloride             | 7647-14-5          | 25-45     |
| Sodium Phosphate, Monobasic | 10049-21-5         | 10-20     |
| Sodium Azide                | 26628-22-8         | 0.05      |

**3. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Clear liquid  
Percent Purity: 100%  
Boiling Point: 100°C  
Freezing Point: 0°C  
pH: 7.2  
Solubility: Aqueous  
Vapor Density: NA  
Vapor Pressure: NA

**4. HAZARDS IDENTIFICATION**

Emergency Overview:

Avoid contact with skin and clothing. Wash thoroughly after handling.

Sodium azide is highly toxic and is readily absorbed through skin. Sodium azide may react with lead and copper plumbing to form highly explosive metal azides.

HMIS Rating:

Health: 4  
Flammability: 0  
Reactivity: 2

NFPA Rating:

Health: 4  
Flammability: 0  
Reactivity: 2

**5. EXPOSURE CONTROLS/EMPLOYEE PROTECTION**

Wear appropriate NIOSH/MSHA-approved respirator, chemical-resistant gloves, safety goggles, and other protective clothing. Safety shower and eye bath required. Mechanical exhaust required. Wash thoroughly after handling.

**6. FIRST AID MEASURES**

Eyes: Immediately flush eyes with copious amounts of water for at least 15 minutes

Skin: Immediately wash skin with soap and copious amounts of water

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult give oxygen

Ingestion: If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately.

Other: Wash contaminated clothing before re-use

**7. FIRE FIGHTING MEASURES**

Upper Flammable Limit: NA

Lower Flammable Limit: NA

Upper Explosion Limit: NA

Lower Explosion Limit: NA

Flashpoint: NA

Auto ignition Temperature: NA

Fire Extinguishing Media: NA

Unusual Fire/Explosion Data: NA

**8. ACCIDENTAL RELEASE**

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves. Sweep up, place in a bag, and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

**9. HANDLING AND STORAGE**

Store in tightly sealed container at room temperature.

**10. WASTE DISPOSAL**

Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, State and local environmental regulations.

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Solulink, Inc. believes the above information to be accurate, but not necessarily all inclusive, and thus should only be used as a guide in the handling and use of this material. The data in this MSDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. Solulink, Inc. shall not take responsibility for any damage resulting from handling or from contact with the above product. The information in this material safety data sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder 29 CFR § 1910.1200.