

Phosphate buffer, pH 7.2: sc-360257



The Power to Question

MATERIAL SAFETY DATA SHEET

Section I

Product Name: Phosphate buffer, pH 7.2

Catalog Number: sc-360257

Supplier: Santa Cruz Biotechnology, Inc.
2145 Delaware Avenue
Santa Cruz, California 95060
800.457.3801 or 831.457.3800

Emergency: ChemWatch
Within the US & Canada: 877-715-9305
Outside the US & Canada: +800 2436 2255
(1-800-CHEMCALL) or call +613 9573 3112

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))	CAS #	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Potassium Phosphate	7778-77-0	Not Available	Not Available	Not Available	<1%
Sodium Hydroxide*	1310-73-2	2 mg/m ³	2 mg/m ³	Not Available	<1%
Thimerosal	54-64-8	0.01 mg/m ³ (as Hg)	0.01 mg/m ³ (as Hg)	Not Available	0.02%

*Subject to SARA Section 313 Reporting Requirements.

Section III - Physical/Chemical Characteristics

Boiling Point	approximately	100 °C (212 °F)	Specific Gravity (H ₂ O = 1)	1.0181	
Vapor Pressure (mm Hg)		Not Available	Melting Point	approximately	0 °C (32 °F)
Vapor Density (AIR = 1)		Not Available	Evaporation Rate (Butyl Acetate = 1)		Not Available

Solubility in Water

Complete.

Appearance and Odor

Clear, colorless liquid.

Section IV Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
Nonflammable.		Not Applicable	Not Applicable

Extinguishing Media

Noncombustible. Use any means suitable for extinguishing surrounding fire.

Special Fire Fighting Procedures

In the event of a fire, wear full protective clothing and NIOSH/MSHA-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Unusual Fire and Explosion Hazards

Emits toxic fumes under fire conditions.

Section V Reactivity Data

Stability	Unstable		Conditions to Avoid	Not Available
	Stable	X		

Incompatibility Materials to Avoid

Unknown to Columbus Chemical Industries, Inc.

Hazardous Decomposition or Byproducts

Sodium oxide, Carbon oxides, Sulfur oxides, Mercury oxides, Potassium oxides and Phosphorus oxides.

Hazardous Polymerization	Conditions to Avoid	
	May Occur	Not Available
	Will Not Occur	X

Section VI Health Hazard Data

Routes of Entry	Inhalation ?	Skin ?	Ingestion ?
	Yes	Yes	Yes

Health Hazards (Acute and Chronic)

SKIN: May cause irritation and may be harmful if absorbed through the skin. EYE: Causes eye irritation.
 INHALATION: May be harmful if inhaled. Material may be irritating to the mucous membranes and upper respiratory tract. INGESTION: May be harmful if swallowed.

Carcinogenicity	NTP	IARC Monographs	OSHA REGULATED?
	Not Listed	Not Listed	Not Listed

Signs and Symptoms of Exposure.

Irritation, especially to mucous membranes of eyes and upper respiratory tract.

Medical Conditions Generally Aggravated by Exposure Unknown to Columbus Chemical Industries, Inc.

Emergency and First Aid Procedures INGESTION: If swallowed, wash out mouth with water if person is conscious.
EYES: In case of contact, immediately flush with large amounts of water for at least 15 minutes. INHALATION: If inhaled remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. SKIN: Immediately wash skin with soap and large amounts of water.

Section VII Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled Evacuate area. Absorb with sand or other noncombustible absorbent and place in a suitable container. Flush spill area with water.

Waste Disposal Method Dispose of according all Federal, state, and local regulations.

Precautions to be Taken in Handling and Storing Keep in tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Avoid storage below 0 °C (32 °F) and above 50 °C (122 °F).

Other Precautions Containers, even when empty, will retain residue and vapors. Always obey hazard warnings and handle empty containers as if they were full.

Section VII Control Measures

Respiratory Protection (Specify Type) NIOSH/MSHA-approved respirator with dust/vapor cartridge.

Ventilation	Local Exhaust	<u>Recommended.</u>	Special	<u>Eye wash nearby.</u>
	Mechanical (General)	<u>Required.</u>	Other	<u>Safety shower nearby.</u>

Protective Gloves Chemical resistant gloves. Eye Protection Chemical Safety goggles.

Other Protective Clothing or Equipment Rubber boots, if needed, and clean body covering clothing.

Work /Hygienic Practices Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work area. Avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing. Wash thoroughly after handling. Avoid breathing vapor.

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.