Sodium Phosphate Buffer, pH4



Section 1 Product Description

Product Name: Sodium Phosphate Buffer, pH4 **Recommended Use:** Science education applications

Synonyms: Disodium hydrogen phosphate, sec-Sodium phosphate, Disodium phosphate, Sodium

hydrogenphosphate

Distributor: Carolina Biological Supply Company

2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

Not a dangerous substance according to GHS classification criteria. No known OSHA hazards.

GHS Classification:

Other Safety Precautions: May cause irritation.

May cause gastrointestinal discomfort. May cause irritation to respiratory tract.

May cause irritation to skin.

Acute Toxicity Inhelation Vanor

Acute Toxicity Inhalation Vapor

Contains

Acute Toxicity Inhalation Dust/Mist

Contains

 $50\ \%$ of the mixture consists of ingredient(s) of unknown toxicity $50\ \%$ of the mixture consists of ingredient(s) of unknown toxicity

50 % of the mixture consists of ingredient(s) of unknown toxicity

Section 3 Composition / Information on Ingredients

 Chemical Name
 CAS #
 %

 Sodium dihydrogen phosphate monohydrate
 10049-21-5
 50

 Water
 7732-18-5
 50

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin Contact: After contact with skin, wash immediately with plenty of water.

Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5 Firefighting Procedures

Extinguishing Media: Use media suitable to extinguish surrounding fire.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.

Hazardous Combustion Products: Sodium Oxides, Metal Oxides,

Section 6

Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

No adverse health affects expected from the clean-up of spilled material. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS. Avoid creating

and inhaling spray or mist. Avoid contact with skin and eyes.

Vacuum or sweep up material and place in a disposal container Use an inert absorbent such as sand or vermiculite. Place in properly labeled closed container. Contain the discharged

material.

Section 7

Handling and Storage

Storage: Keep container tightly closed in a cool, well-ventilated place.

Storage Code: Green - general chemical storage

Section 8

Protection Information

ACGIH OSHA PEL

Chemical Name(TWA)(STEL)(TWA)(STEL)No data availableN/AN/AN/AN/A

Control Parameters

Engineering Measures: No exposure limits exist for the constituents of this product. General room ventilation

might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use.

Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station

available.

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective

equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

work. Nitrile

Gloves:

Section 9 Physical Data

Formula: See Section 3 Vapor Pressure: No data available

Molecular Weight: Evaporation Rate (BuAc=1): No data available

Appearance: Colorless Liquid

Odor: No data available

Specific Gravity: No data available

Specific Gravity: No data available

Odor Threshold: No data available Solubility in Water: Soluble

pH: 4.1-4.5

Melting Point: No data available

Boiling Point: 100 C

Log Pow (calculated): No data available

Autoignition Temperature: No data available

Decomposition Temperature: No data available

Flash Point: No data available Viscosity: No data available

Flammable Limits in Air: No data available Percent Volatile by Volume: No data available

Section 10

Reactivity Data

Reactivity: No data available

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: None known.

Incompatible Materials: Water-reactive materials, Strong oxidizing agents, Strong acids

Hazardous Decomposition Products: Metal Oxides,, Sodium Oxides

Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Symptoms (Acute): No data available **Delayed Effects:** No data available

Acute Toxicity:

Chemical Name CAS Number Oral LD50 **Dermal LD50** Inhalation LC50

Sodium dihydrogen phosphate monohydrate 10049-21-5 Oral LD50 Rat

8290 mg/kg

7732-18-5 Oral LD50 Rat Water

90000 mg/kg

Carcinogenicity:

Chemical Name CAS Number IARC NTP **OSHA** No data available

Not listed Not listed Not listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.

Teratogenicity: No evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect. Reproductive: No evidence of negative reproductive effects.

Target Organ Effects:

Acute: No data available Chronic: No data available

Ecological Data Section 12

Overview: This material is not expected to be harmful to the ecology. Keep out of waterways.

Mobility: No data Persistence: No data Bioaccumulation: No data Degradability: No data Other Adverse Effects: No data

Chemical Name CAS Number Eco Toxicity Water 7732-18-5 No data available

Section 13 Disposal Information

Dispose in accordance with all applicable Federal, State and Local regulations. Always **Disposal Methods:**

contact a permitted waste disposer (TSD) to assure compliance.

Not Determined Waste Disposal Code(s):

Section 14 Transport Information

Ground - DOT Proper Shipping Name: Air - IATA Proper Shipping Name: Not regulated for transport by US DOT. Not regulated for air transport by IATA.

 Regulatory Information

 TSCA Status:
 All components in this product are on the TSCA Inventory.

 Chemical Name
 CAS § 313 Name § 304 RQ CERCLA RQ § 302 TPQ CAA 112(2) TQ

No

No

No

No

Section 16 Additional Information

No data available

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No

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary			
ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health