

MATERIAL SAFETY DATA SHEET

SODIUM PHOSPHATE, MONOBASIC
CAROLINA BIOLOGICAL

Revised: 11/28/07
Replaces: 07/16/04
Printed: 01/15/08

1. PRODUCT DESCRIPTION

Product Name: Sodium Phosphate, Monobasic
Product Code(s): 89-1338, 89-1340, 89-1350, 89-1352, 67-1925, 84-0920, 20-7922
Size: 100g, 500g
Chemical Name: Sodium Phosphate, Monobasic
CAS Number: 10049-21-5
Formula: NaH_2PO_4
Synonyms: Sodium Dihydrogen Phosphate
Distributor: Carolina Biological Supply Company
2700 York Road
Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec (Transportation Spill Response 24 hours): 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Principal Hazardous Components: Sodium Phosphate, Monobasic
(CAS#10049-21-5)100%

TLV and PEL units: None established

3. HAZARD IDENTIFICATION

Emergency Overview: May be irritating on contact with skin, eyes, mucous membranes.

Potential Health Effects:

Eyes: May cause irritation.

Skin: May cause irritation.

Ingestion: May cause gastrointestinal discomfort.

Inhalation: May cause irritation to respiratory tract.

4. FIRST AID MEASURES

Emergency and First Aid Procedures:

Eyes - Flush with water for at least 15 minutes, raising and lowering eyelids occasionally. Get medical attention if irritation persists.

Skin - Thoroughly wash exposed area for at least 15 minutes. Remove contaminated clothing. Launder contaminated clothing before reuse. Get medical attention if irritation persists.

Ingestion - If swallowed, if conscious, give plenty of water. Do not induce vomiting unless and until directed by medical personnel. Get medical attention immediately. Never give anything by mouth to an unconscious person.

Inhalation - Remove to fresh air. Give oxygen if breathing is difficult; give artificial respiration if breathing has stopped. Keep person warm and quiet, and get medical attention.

5. FIREFIGHTING PROCEDURES

Flash Point(Method Used): Noncombustible

NFPA Rating: Health: 1

Fire: 0

Reactivity: 0

Extinguisher Media:

Use dry chemical, CO₂ or appropriate foam.

Flammable Limits in Air % by Volume: None

Autoignition Temperature: N/A

Special Firefighting Procedures:

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Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Thermal decomposition produces toxic fumes.

6. SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:

Ventilate area of spill. Clean-up personnel should wear proper protective equipment. Avoid creating dust. Sweep or scoop up and containerize for disposal.

7. SPECIAL PRECAUTIONS

Precautions to be Taken in Handling or Storing: Keep in tightly closed container. Store at controlled room temperature.

8. SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type):

None needed under normal conditions of use with adequate ventilation.

NIOSH approved equipment should be worn if PELs are exceeded.

Ventilation:

Local Exhaust:	Yes
Mechanical (General):	Yes
Special:	No
Other:	No

Protective Gloves:

Rubber, neoprene, PVC, or equivalent.

Eye Protection:

Splash proof chemical safety goggles should be worn at all times.

Other Protective Clothing or Equipment:

Lab coat, eye wash, and safety shower.

9. PHYSICAL DATA

Molecular Weight:	137.99
Melting Point:	Decomposes
Boiling Point:	N/A
Vapor Pressure:	N/A
Specific Gravity (H ₂ O=1):	2.04
Percent Volatile by Volume:	N/A
Evaporation Rate (H ₂ O=1):	N/A
Solubility in Water:	Soluble
Appearance and Odor:	Colorless crystals, slightly hygroscopic.

10. REACTIVITY DATA

Stability:

Conditions to Avoid: Moisture

Incompatibility (Materials to Avoid): None

Hazardous Decomposition Products: Oxides of phosphorus, sodium oxide.

Hazardous Polymerization: Will not occur

11. TOXICITY DATA

Toxicity Data: oral-rat LD50: 8,290 mg/kg

Effects of Overexposure:

Acute: See section 3

Chronic: Material is not listed (NTP, IARC, OSHA) as causing cancer.

Conditions Aggravated by Overexposure: N/A

Target Organs: N/A

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Primary Route(s) of Entry: Inhalation, ingestion, eyes, skin

12. ECOLOGICAL DATA

EPA Waste Numbers: None

13. DISPOSAL INFORMATION

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

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

14. TRANSPORT INFORMATION

Not regulated for transport

15. REGULATORY INFORMATION

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

	SARA EHS Sec. 302 TPQ	SARA Sec. 313 Chemicals Name Chemical List Category	CERCLA Sec. 103 RQ lbs.	RCRA Sec. 261.33
Product or Components				

Sodium Phosphate,

Monobasic

No

No

No

No

No

16. ADDITIONAL INFORMATION

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. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH.....American Conference of Governmental Industrial Hygienists

CAS Number..Chemical Abstracts Service Number

CERCLA.....Comprehensive Environmental Response, Compensation, and Liability Act

DOT.....U.S. Department of Transportation

IARC.....International Agency of Research on Cancer

mppcf.....million particles per cubic foot

N/A.....Not Available

NTP.....National Toxicology Program

OSHA.....Occupational Safety and Health Administration

PEL.....Permissible Exposure Limit

ppm.....parts per million

RCRA.....Resource Conservation and Recovery Act

SARA.....Superfund Amendments and Reauthorization Act

TLV.....Threshold Limit Value

TSCA.....Toxic Substances Control Act