

# Safety Data Sheet

## Sodium Phosphate, Dibasic, 7-Hydrate

**CAROLINA**<sup>®</sup>  
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### Section 1 Product Description

**Product Name:** Sodium Phosphate, Dibasic, 7-Hydrate  
**Recommended Use:** Science education applications  
**Synonyms:** Disodium orthophosphate heptahydrate  
**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;

#### GHS Classification:

**Other Safety Precautions:** Not a dangerous substance according to GHS classification criteria.  
No known OSHA hazards.  
May be harmful if swallowed, in contact with skin or if inhaled.

### Section 3 Composition / Information on Ingredients

| <u>Chemical Name</u>                 | <u>CAS #</u> | <u>%</u> |
|--------------------------------------|--------------|----------|
| Sodium Phosphate, Dibasic, 7-Hydrate | 7782-85-6    | 100      |

### 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 alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.  
**Fire Fighting Methods and Protection:** Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.  
**Fire and/or Explosion Hazards:** Risk of explosion if heated under confinement.  
**Hazardous Combustion Products:** Sodium Oxides, Phosphorus compounds

### Section 6 Spill or Leak Procedures

**Steps to Take in Case Material Is Released or Spilled:** Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Avoid the generation of dusts during clean-up. No special spill clean-up considerations. Collect and discard in regular trash. Do not allow the spilled product to enter public drainage system or open waterways.

### Section 7 Handling and Storage

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**Handling:** Do not ingest or take internally. Avoid creating and inhaling dust.  
**Storage:** Suitable for any general chemical storage.  
Keep container tightly closed and dry.  
**Storage Code:** Green - general chemical storage

## Section 8 Protection Information

| Chemical Name     | (TWA) | ACGIH | (STEL) | (TWA) | OSHA PEL | (STEL) |
|-------------------|-------|-------|--------|-------|----------|--------|
| No data available | N/A   |       | N/A    | N/A   |          | N/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. Wear safety glasses with side shields and a Face shield

**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.

**Gloves:** Nitrile

## Section 9 Physical Data

|                                                                     |                                                     |
|---------------------------------------------------------------------|-----------------------------------------------------|
| <b>Formula:</b> HNa <sub>2</sub> O <sub>4</sub> P*7H <sub>2</sub> O | <b>Vapor Pressure:</b> N/A                          |
| <b>Molecular Weight:</b> 268.07                                     | <b>Evaporation Rate (BuAc=1):</b> N/A               |
| <b>Appearance:</b> Colorless to White Crystalline Solid             | <b>Vapor Density (Air=1):</b> N/A                   |
| <b>Odor:</b> No data available                                      | <b>Specific Gravity:</b> 1.68                       |
| <b>Odor Threshold:</b> No data available                            | <b>Solubility in Water:</b> Slightly Soluble        |
| <b>pH:</b> 9.0 - 9.3 at 50 g/l at 25C                               | <b>Log Pow (calculated):</b> No data available      |
| <b>Melting Point:</b> No data available                             | <b>Autoignition Temperature:</b> No data available  |
| <b>Boiling Point:</b> No data available                             | <b>Decomposition Temperature:</b> No data available |
| <b>Flash Point:</b> No data available                               | <b>Viscosity:</b> No data available                 |
| <b>Flammable Limits in Air:</b> N/A                                 | <b>Percent Volatile by Volume:</b> 0 @ 21°C         |

## Section 10 Reactivity Data

|                                          |                                                 |
|------------------------------------------|-------------------------------------------------|
| <b>Reactivity:</b>                       | Not generally reactive under normal conditions. |
| <b>Chemical Stability:</b>               | Stable under normal conditions.                 |
| <b>Conditions to Avoid:</b>              | Exposure to moisture                            |
| <b>Incompatible Materials:</b>           | Acids                                           |
| <b>Hazardous Decomposition Products:</b> | Phosphorus compounds, Sodium Oxides             |
| <b>Hazardous Polymerization:</b>         | Will not occur                                  |

## Section 11 Toxicity Data

**Routes of Entry:** Inhalation, ingestion, eye or skin contact.  
**Symptoms (Acute):** N/A  
**Delayed Effects:** No data available

### Acute Toxicity:

| Chemical Name                        | CAS Number | Oral LD50                                                    | Dermal LD50    | Inhalation LC50 |
|--------------------------------------|------------|--------------------------------------------------------------|----------------|-----------------|
| Sodium Phosphate, Dibasic, 7-Hydrate | 7782-85-6  | Oral LD50 Rat<br>17000 mg/kg<br>Oral LD50 Rat<br>12930 mg/kg | Not determined | Not determined  |

### Carcinogenicity:

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**Chemical Name**

No data available

**CAS Number**

7782-85-6

**IARC**

Not listed

**NTP**

Not listed

**OSHA**

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:**

See Section 2

**Chronic:**

Not listed as a carcinogen by IARC, NTP or OSHA.

## Section 12

## Ecological Data

**Overview:**

This material is not expected to be harmful to the ecology.

**Mobility:**

No data

**Persistence:**

No data

**Bioaccumulation:**

No data

**Degradability:**

No data

**Other Adverse Effects:**

No data

**Chemical Name**

N/A

**CAS Number**

7782-85-6

**Eco Toxicity**

## Section 13

## Disposal Information

**Disposal Methods:**

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

**Waste Disposal Code(s):**

Not Determined

## Section 14

## Transport Information

**Ground - DOT Proper Shipping Name:**

UN number: 3077 Class: 9 Packing group: III Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Sodium monohydrogen phosphate, heptahydrate) Reportable Quantity (RQ): 5000 lbs Marine Pollutant: No Poison Inhalation Hazard: No

**Air - IATA Proper Shipping Name:**

Not regulated for air transport by IATA.

## Section 15

## Regulatory Information

**TSCA Status:**

A component (or components) of this product is not listed on the TSCA Inventory of Existing Chemical Substances. Product is for research and development use only.

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

No data available

7782-85-6

No

No

No

No

No

## Section 16

## Additional Information

**Revised: 09/09/2015****Replaces: 08/26/2014****Printed: 10-29-2015**

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**

# Safety Data Sheet

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