# Material Safety Data Sheet Sodium phosphate monobasic monohydrate

ACC# 15191

### Section 1 - Chemical Product and Company Identification

MSDS Name: Sodium phosphate monobasic monohydrate

Catalog Numbers: BP330-1, BP330-500, BP330PP3KG, NC9004704, NC9218828, NC9238228, NC9310476, NC9316071, NC9500684, NC9587449, NC9622173, NC9632300, NC9881690, NC9975472, S369-1, S369-10, S369-250LB, S369-3, S369-50, S369-500, S468-10, S468-250LB, S468-3, S468-500, XXBP330PP3KG, XXS369PD7KG, XXS468ET100LB, XXS468ET12KG Synonyms: Monosodium dihydrogen orthophosphate monohydrate; Monosodium dihydrogen phosphate monohydrate. Company Identification: Fisher Scientific 1 Reagent Lane Fair Lawn, NJ 07410 For information, call: 201-796-7100 Emergency Number: 201-796-7100 For CHEMTREC assistance, call: 800-424-9300 For International CHEMTREC assistance, call: 703-527-3887

### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
10049-21-5	Sodium dihydrogen phosphate monohydrate	>98	unlisted

Section 3 - Hazards Identification

### **EMERGENCY OVERVIEW**

Appearance: white solid.

**Warning!** Causes eye, skin, and respiratory tract irritation. **Target Organs:** Respiratory system, eyes, skin.

#### **Potential Health Effects**

**Eye:** Causes eye irritation. **Skin:** Causes skin irritation. **Ingestion:** Ingestion of large amounts may cause gastrointestinal irritation. **Inhalation:** Causes respiratory tract irritation. Can produce delayed pulmonary edema. **Chronic:** Effects may be delayed.

### Section 4 - First Aid Measures

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid. **Skin:** Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

**Ingestion:** Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Get medical aid if irritation or symptoms occur.

**Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Notes to Physician: Treat symptomatically and supportively.

## Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Dusts at sufficient concentrations can form explosive mixtures with air. Combustion generates toxic fumes. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. **Extinguishing Media:** Use extinguishing media most appropriate for the surrounding fire. Use water spray, dry chemical, carbon dioxide,

or appropriate foam. Flash Point: Not applicable. Autoignition Temperature: Not applicable. Explosion Limits, Lower:Not available. Upper: Not available. NFPA Rating: (estimated) Health: 2; Flammability: 0; Instability: 0

Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8. **Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing

## Section 7 - Handling and Storage

**Handling:** Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Wash clothing before reuse. **Storage:** Store in a cool, dry, well-ventilated area away from incompatible substances. Keep containers tightly closed.

## Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits				
Chemical Name	ACGIH	NIOSH	OSHA - Final PELs	
Sodium dihydrogen phosphate monohydrate	none listed	none listed	none listed	
Sodium phosphate, monobasic, anhydrous	none listed	none listed	none listed	

**OSHA Vacated PELs:** Sodium dihydrogen phosphate monohydrate: No OSHA Vacated PELs are listed for this chemical. Sodium phosphate, monobasic, anhydrous: No OSHA Vacated PELs are listed for this chemical.

### Personal Protective Equipment

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

## Section 9 - Physical and Chemical Properties

Physical State: Solid Appearance: white Odor: none reported pH: 4.5 (0.1M sol.) Vapor Pressure: Negligible. Vapor Density: Not applicable. Evaporation Rate:Negligible. Viscosity: Not available. Boiling Point: 399 deg F Freezing/Melting Point:212 deg F Decomposition Temperature:399 deg F Solubility: Soluble in water. Specific Gravity/Density:2.04 (water=1) Molecular Formula:H2O4PNa.H2O Molecular Weight:137.99

## Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures. Conditions to Avoid: Incompatible materials, dust generation, excess heat. Incompatibilities with Other Materials: Strong acids. Hazardous Decomposition Products: Carbon monoxide, oxides of phosphorus, carbon dioxide. Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#: CAS# 10049-21-5 unlisted. CAS# 7558-80-7: WA1900000 LD50/LC50: Not available.

CAS# 7558-80-7: Draize test, rabbit, eye: 150 mg Mild; Oral, rat: LD50 = 8290 mg/kg;

### CAS# 7558-80-7: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information available. Teratogenicity: No information available. Reproductive Effects: No information available. Mutagenicity: No information available. Neurotoxicity: No information available. Other Studies:

### Section 12 - Ecological Information

No information available.

### Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. **RCRA P-Series:** None listed. **RCRA U-Series:** None listed.

### Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	Please contact Fisher Scientific for shipping information	No information available.
Hazard Class:		
UN Number:		
Packing Group:		

## Section 15 - Regulatory Information

### **US FEDERAL**

#### TSCA

CAS# 10049-21-5 is not on the TSCA Inventory because it is a hydrate. It is considered to be listed if the CAS number for the anhydrous form is on the inventory (40CFR720.3(u)(2)).

## CAS# 7558-80-7 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

### **Chemical Test Rules**

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

## None of the chemicals in this material have an RQ.

## SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ. Section 313 No chemicals are reportable under Section 313.

#### Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

#### **Clean Water Act:**

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

- None of the chemicals in this product are listed as Priority Pollutants under the CWA.
- None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

### OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE CAS# 10049-21-5 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

CAS# 7558-80-7 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

### California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

### European/International Regulations

### European Labeling in Accordance with EC Directives

Hazard Symbols: Not available. Risk Phrases:

Safety Phrases:

WGK (Water Danger/Protection)

CAS# 10049-21-5: 1 CAS# 7558-80-7: 1 Canada - DSL/NDSL

CAS# 7558-80-7 is listed on Canada's DSL List.

### Canada - WHMIS

This product has a WHMIS classification of Not controlled..

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

### Canadian Ingredient Disclosure List

### Section 16 - Additional Information

#### MSDS Creation Date: 7/12/1999 Revision #3 Date: 10/03/2005

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.