

# Material Safety Data Sheet

## Section 1. Product and Company Identification

<b>Product Name</b>	Buffer Phosphate, pH 6.8	<b>Product Code</b>	1218
<b>Manufacturer</b>	EMD Chemicals Inc. P.O. Box 70 480 Democrat Road Gibbstown, NJ 08027 Prior to January 1, 2003 EMD Chemicals Inc. was EM Industries, Inc. or EM Science, Division of EM Industries, Inc.	<b>Effective Date</b>	4/28/2003
		<b>Print Date</b>	5/3/2004

### For More Information Call

856-423-6300 Technical Service  
Monday-Friday: 8:00 AM - 5:00 PM

### In Case of Emergency Call

800-424-9300 CHEMTREC (USA)  
613-996-6666 CANUTEC (Canada)  
24 Hours/Day: 7 Days/Week

**Synonym** None.

**Material Uses** Laboratory Reagent

**Chemical Family** Solution.

## Section 2. Composition and Information on Ingredients

Component	CAS #	% by Weight
Sodium Phosphate, Dibasic, Anhydrous	7558-79-4	<1
Potassium Phosphate	7778-77-0	<1
Sodium Azide	26628-22-8	<1
Water	7732-18-5	>98

## Section 3. Hazards Identification

**Physical State and Appearance** Liquid.

**Emergency Overview** CAUTION !  
MAY BE HARMFUL IF SWALLOWED.

**Routes of Entry** Inhalation. Ingestion.

### Potential Acute Health Effects

**Eyes** No known effect on eye contact, rinse with water for a few minutes.

**Skin** No known effect on skin contact; rinse with water for a few minutes.

**Inhalation** No known acute effects of this product resulting from inhalation.

**Ingestion** May be hazardous in case of ingestion. Do not ingest.

### Potential Chronic Health Effects

**Carcinogenic Effects** This material is not known to cause cancer in animals or humans.

**Additional information** See Toxicological Information (section 11)

**Medical Conditions Aggravated by Overexposure:** Repeated or prolonged exposure is not known to aggravate medical condition.

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**Section 4. First Aid Measures**

<b>Eye Contact</b>	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.
<b>Skin Contact</b>	Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.
<b>Inhalation</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
<b>Ingestion</b>	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

**Section 5. Fire Fighting Measures**

<b>Flammability of the Product</b>	Non-flammable.
<b>Auto-ignition Temperature</b>	Not applicable.
<b>Flash Points</b>	Not applicable.
<b>Flammable Limits</b>	Not applicable.
<b>Products of Combustion</b>	Not applicable.
<b>Fire Hazards in Presence of Various Substances</b>	Not applicable.
<b>Explosion Hazards in Presence of Various Substances</b>	Risks of explosion of the product in presence of static discharge: No. Risks of explosion of the product in presence of mechanical impact: No.
<b>Fire Fighting Media and Instructions</b>	Not applicable.
<b>Protective Clothing (Fire)</b>	Not applicable.
<b>Special Remarks on Fire Hazards</b>	Not available.
<b>Special Remarks on Explosion Hazards</b>	Forms explosion sensitive compounds with some metals such as lead, silver, mercury and copper. (Sodium Azide)

**Section 6. Accidental Release Measures**

<b>Small Spill and Leak</b>	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.
<b>Large Spill and Leak</b>	Absorb with an inert material and put the spilled material in an appropriate waste disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.
<b>Spill Kit Information</b>	No specific spill kit required for this product.

**Section 7. Handling and Storage**

**Handling** Do not ingest. Wash thoroughly after handling.

**Storage** Keep container tightly closed. Keep container in a cool, well-ventilated area.

**Section 8. Exposure Controls/Personal Protection**

**Engineering Controls** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.

**Personal Protection**

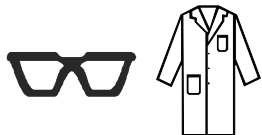
**Eyes** Safety glasses.

**Body** Lab coat.

**Respiratory** Not applicable.

**Hands** Not applicable.

**Feet** Not applicable.

**Protective Clothing (Pictograms)****Personal Protection in Case of a Large Spill**

Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Product Name**

Sodium Phosphate, Dibasic, Anhydrous  
Potassium Phosphate  
Sodium Azide

**Exposure Limits**

Not available.  
Not available.  
**ACGIH (United States, 1996).**  
CEIL: 0.29 mg/m<sup>3</sup>  
CEIL: 0.11 ppm Form: Vapor  
**NIOSH REL (United States, 1994). Skin**  
CEIL: 0.3 mg/m<sup>3</sup> Form: As NaN<sub>3</sub>  
CEIL: 0.1 ppm Form: As HN<sub>3</sub>  
**OSHA Final Rule (United States, 1989). Skin**  
CEIL: 0.3 mg/m<sup>3</sup>  
CEIL: 0.1 ppm  
Not available.

Water

**Section 9. Physical and Chemical Properties**

**Odor** Odorless.

**Color** Clear. Colorless.

**Physical State and Appearance** Liquid.

**Molecular Weight** Not applicable.

**Molecular Formula** Not applicable.

**pH** 6.8 [Neutral.]

**Boiling/Condensation Point** The lowest known value is 99.9°C (211.8°F) (Water).

**Melting/Freezing Point** May start to solidify at -0.1°C (31.8°F) based on data for: Water.

**Specific Gravity** Not available.

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Vapor Pressure	Not available.
Vapor Density	Not available.
Odor Threshold	Not available.
Evaporation Rate	0.36 (Water) compared to(n-Butyl Acetate =1)
LogK <sub>ow</sub>	Not available.
Solubility	Soluble in water.

### Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Conditions of Instability	Not available.
Incompatibility with Various Substances	Slightly reactive to reactive with acids.
Rem/Incompatibility	Contact with acids liberates toxic gas. (Sodium Azide)
Hazardous Decomposition Products	Not available.
Hazardous Polymerization	Will not occur.

### Section 11. Toxicological Information

RTECS Number:	Sodium Phosphate, Dibasic, Anhydrous	WC4500000
	Potassium Phosphate	TC6615500
	Sodium Azide	VY8050000
	Water	ZC0110000
Toxicity	LD <sub>50</sub> : Not available. LC <sub>50</sub> : Not available.	
Chronic Effects on Humans	Not available.	
Acute Effects on Humans	May be hazardous in case of ingestion.	
Synergetic Products (Toxicologically)	Not available.	
Irritancy	Draize Test: Not available.	
Sensitization	Not available.	
Carcinogenic Effects	This material is not known to cause cancer in animals or humans.	
Toxicity to Reproductive System	Not available.	
Teratogenic Effects	Not available.	
Mutagenic Effects	Not available.	

**Section 12. Ecological Information**

**Ecotoxicity** Not available.

**BOD5 and COD** Not available.

**Toxicity of the Products of Biodegradation** The products of degradation are less toxic than the product itself.

**Section 13. Disposal Considerations**

**EPA Waste Number** Not available.

**Treatment** Material does not have an EPA Waste number and is not a listed waste, however consultation with a permitted waste disposal site (TSD) should be accomplished.  
ALWAYS CONTACT A PERMITTED WASTE DISPOSER (TSD) TO ASSURE COMPLIANCE WITH ALL CURRENT LOCAL, STATE AND FEDERAL REGULATIONS.

**Section 14. Transport Information**

**DOT Classification** Not available.

**TDG Classification** Not available.

**IMO/IMDG Classification** Not available.

**ICAO/IATA Classification** Not available.

**Section 15. Regulatory Information**

**U.S. Federal Regulations** TSCA 8(b) inventory: Sodium Phosphate, Dibasic, Anhydrous; Potassium Phosphate; Sodium Azide; Water  
SARA 302/304/311/312 extremely hazardous substances: Sodium Azide  
SARA 302/304 emergency planning and notification: Sodium Azide  
SARA 302/304/311/312 hazardous chemicals: Sodium Phosphate, Dibasic, Anhydrous; Sodium Azide  
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Sodium Phosphate, Dibasic, Anhydrous: Immediate (Acute) Health Hazard; Sodium Azide: Immediate (Acute) Health Hazard

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: Sodium Phosphate, Dibasic, Anhydrous

Clean air act (CAA) 112 accidental release prevention: No products were found.

Clean air act (CAA) 112 regulated flammable substances: No products were found.

Clean air act (CAA) 112 regulated toxic substances: No products were found.

**WHMIS (Canada)** Not controlled under WHMIS (Canada).

CEPA DSL: Sodium Phosphate, Dibasic, Anhydrous; Potassium Phosphate; Sodium Azide; Water

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

**International Regulations**

<b>EINECS</b>	Sodium Phosphate, Dibasic, Anhydrous	231-448-7
	Potassium Phosphate	231-913-4
	Sodium Azide	247-852-1
	Water	231-791-2

**DSCL (EEC)** R21- Harmful in contact with skin.

**International Lists** Australia (NICNAS): Sodium Phosphate, Dibasic, Anhydrous; Potassium Phosphate; Sodium Azide; Water

Japan (MITI): Sodium Phosphate, Dibasic, Anhydrous; Potassium Phosphate; Sodium Azide; Water

Korea (TCCL): Sodium Phosphate, Dibasic, Anhydrous; Potassium Phosphate; Sodium Azide; Water

Philippines (RA6969): Sodium Phosphate, Dibasic, Anhydrous; Potassium Phosphate; Sodium Azide; Water

China: No products were found.

#### State Regulations

Pennsylvania RTK: Sodium Phosphate, Dibasic, Anhydrous: (environmental hazard, generic environmental hazard); Sodium Azide: (environmental hazard, generic environmental hazard)

Massachusetts RTK: Sodium Phosphate, Dibasic, Anhydrous; Sodium Azide

New Jersey: Buffer Phosphate, pH 6.4

California prop. 65: No products were found.

### Section 16. Other Information

**National Fire  
Protection  
Association  
(U.S.A.)**



**Changed Since Last  
Revision**

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#### Notice to Reader

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