

Buffer Solution, pH 7

Material Safety Data Sheet

Section 1. Product and Company Identification

Product Name Buffer Solution, pH 7

Product Code 34170-139

Manufacturer 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.

Effective Date 3/4/2003

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	
Potassium Phosphate	7778-77-0	
Dowicide A	132-27-4	0.05
Water	7732-18-5	97-100

+ Section 3. Hazards Identification

Physical State and Appearance Liquid.

Emergency Overview

CAUTION !

MAY BE HARMFUL IF INHALED OR SWALLOWED.

MAY CAUSE EYE AND SKIN IRRITATION.

WARNING: This product contains a chemical(s) known to the State of California to cause cancer.

Routes of Entry Inhalation. Ingestion.

Potential Acute Health Effects

Eyes May be hazardous in case of eye contact (irritant).

Skin May be hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Inhalation May be hazardous in case of inhalation.

Ingestion May be hazardous in case of ingestion.

Potential Chronic Health Effects

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

Effects

Additional information See Toxicological Information (section 11)

Buffer Solution, pH 7

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

Section 4. First Aid Measures

Eye Contact 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.

Skin Contact In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion 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

Flammability of the Product Non-flammable.

Auto-ignition Temperature Not applicable.

Flash Points Not applicable.

Flammable Limits Not applicable.

Products of Combustion Not applicable.

Fire Hazards in Presence of Various Substances Not applicable.

Explosion Hazards in Presence of Various Substances Risks of explosion of the product in presence of static discharge: No.

Risks of explosion of the product in presence of mechanical impact: No.

Fire Fighting Media and Instructions Not applicable.

Protective Clothing (Fire) Not applicable.

Special Remarks on Fire Hazards Not available.

Special Remarks on Explosion Hazards Not available.

Section 6. Accidental Release Measures

Small Spill and Leak Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

Large Spill and Leak Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Spill Kit No specific spill kit required for this product.

Information

Section 7. Handling and Storage

Handling	Avoid contact with eyes, skin and clothing. Do not ingest. Avoid breathing vapors or spray mists. Keep container closed. Use only with adequate ventilation. 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. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Personal Protection	
Eyes	Splash goggles.
Body	Lab coat.
Respiratory	Vapor respirator. Be sure to use an approved/certified respirator or equivalent.
Hands	Gloves.
Feet	Not applicable.
Protective Clothing (Pictograms)	
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Product Name	Exposure Limits
Sodium Phosphate, Dibasic, Anhydrous	Not available.
Potassium Phosphate	Not available.
Dowicide A	Not available.
Water	Not available.

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	7 [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.
Vapor Pressure	Not available.
Vapor Density	Not available.
Odor Threshold	Not available.

Buffer Solution, pH 7

Evaporation Rate	0.36 (Water) compared to (n-BUTYL ACETATE=1)
LogKow	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	Not available.
Rem/Incompatibility	Not available.
Hazardous Decomposition Products	Not applicable.
Hazardous Polymerization	Will not occur.

Section 11. Toxicological Information

RTECS Number:

Sodium Phosphate, Dibasic, Anhydrous, GR	WC4500000
Potassium Phosphate	TC6615500
Water	ZC0110000
Dowicide A	DV7700000

Toxicity	LD50: Not available. LC50: Not available.
-----------------	--

Chronic Effects on Humans	Not available.
----------------------------------	----------------

Acute Effects on Humans	May be hazardous in case of eye contact (irritant). May be hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. May be hazardous in case of inhalation. 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.
---------------------	----------------

Section 13. Disposal Considerations

Buffer Solution, pH 7

EPA Waste Number Treatment	Not available. 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. ALWAYS CONTACT 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; Dowicide A; Water SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: SODIUM PHOSPHATE, DIBASIC, ANHYDROUS ; Dowicide A SARA 311/312 MSDS distribution – chemical inventory – hazard identification: SODIUM PHOSPHATE, DIBASIC, ANHYDROUS : Immediate (Acute) Health Hazard; Dowicide A: Immediate (Acute) Health Hazard, Delayed (Chronic) 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, Monobasic; WATER; Dowicide A 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	

Buffer Solution, pH 7

EINECS Sodium Phosphate, Dibasic, Anhydrous 231-448-7
Potassium Phosphate 231-913-4
Dowicide A 205-055-6
Water 231-791-2

DSCL (EEC) This product is not classified according to the EU regulations.
International Australia (NICNAS): SODIUM PHOSPHATE, DIBASIC,
Lists ANHYDROUS

; Potassium Phosphate, Monobasic; WATER; Dowacide A

Japan (MITI): SODIUM PHOSPHATE, DIBASIC, ANHYDROUS
; Potassium Phosphate, Monobasic; WATER; Dowacide A

Japan (MOL): Dowacide A

Korea (TCCL): SODIUM PHOSPHATE, DIBASIC, ANHYDROUS
; Potassium Phosphate, Monobasic; WATER; Dowacide A

Philippines (RA6969): SODIUM PHOSPHATE, DIBASIC,
ANHYDROUS
; Potassium Phosphate, Monobasic; WATER; Dowacide A

China: No products were found.

State Regulations Pennsylvania RTK: SODIUM PHOSPHATE, DIBASIC, ANHYDROUS
: (environmental hazard, generic environmental hazard)

Massachusetts RTK: SODIUM PHOSPHATE, DIBASIC, ANHYDROUS
; Dowacide A

New Jersey: Buffer Solution, pH 7

California prop. 65: This product contains the following ingredients for
which the State of California has found to cause cancer, birth defects or
other reproductive harm, which would require a warning under the statute:
Dowicide A

California prop. 65 (no significant risk level): Dowicide A

California prop. 65: This product contains the following ingredients for
which the State of California has found to cause cancer which would
require a warning under the statute: Dowicide A

Section 16. Other Information

National Fire	0	Fire
Protection	10	Hazard
Association	Health	Reactivity
(U.S.A.)		Specific
		Hazard

Changed Since Last
Revision +

Notice to Reader

The statements contained herein are based upon technical data that EMD Chemicals Inc. believes to be reliable, are offered for information purposes only and as a guide to the appropriate precautionary and emergency handling of the material by a properly trained person having the necessary technical skills. Users should consider these data only as a supplement to other information gathered by them and must make independent

Buffer Solution, pH 7

determinations of suitability and completeness of information from all sources to assure proper use, storage and disposal of these materials and the safety and health of employees and customers and the protection of the environment. EMD CHEMICALS INC. MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE, WITH RESPECT TO THE INFORMATION HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS.
