

Buffer pH 7.0, Yellow

Material Safety Data Sheet

Section 1. Product and Company Identification

Product Name Buffer pH 7.0, Yellow

Product Code 34170-130

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	0-1
Potassium Phosphate, Monobasic	7778-77-0	0-1
Tartrazine	1934-21-0	0-1
WATER	7732-18-5	97-99
Dowacide A	132-27-4	0.05

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 Eye contact. 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.

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Additional information See Toxicological Information (section 11)

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 Information No specific spill kit required for this product.

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, Monobasic	Not available.
Tartrazine	Not available.
WATER	Not available.
Dowacide A	Not available.

Section 9. Physical and Chemical Properties

Odor Odorless.

Color Clear. Yellow.

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.

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Vapor Density	Not available.
Odor Threshold	Not available.
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
Tartrazine	UQ6400000
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.
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, Monobasic; Tartrazine; Water; Dowacide A
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; Tartrazine; Water; Dowacide A
This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all required

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information.

International Regulations

EINECS SODIUM PHOSPHATE, DIBASIC, ANHYDROUS 231-448-7
Potassium Phosphate, Monobasic 231-913-4
PYRAZOLE-3-CARBOXYLIC ACID, 5-HYDROXY-1-(P-SULFOPHENYL)-4-(P-SULFOPHENYL)AZO-, TRISODIUM SALT 217-699-5
WATER 231-791-2
2-BIPHENYLOL, SODIUM SALT 205-055-6

DSCL (EEC) This product is not classified according to the EU regulations.

International Lists Australia (NICNAS): SODIUM PHOSPHATE, DIBASIC, ANHYDROUS ; Potassium Phosphate, Monobasic; Tartrazine; Water; Dowicide A

Japan (MITI): SODIUM PHOSPHATE, DIBASIC, ANHYDROUS ; Potassium Phosphate, Monobasic; Tartrazine; Water; Dowicide A

Japan (MOL): Dowicide A

Korea (TCCL): SODIUM PHOSPHATE, DIBASIC, ANHYDROUS ; Potassium Phosphate, Monobasic; Tartrazine; Water; Dowicide A

Philippines (RA6969): SODIUM PHOSPHATE, DIBASIC, ANHYDROUS ; Potassium Phosphate, Monobasic; Tartrazine; Water; Dowicide 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; Dowicide A
New Jersey: Buffer Solution, pH 7.0 (Yellow)
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 Protection Association (U.S.A.)

0 0

Health²

Fire Hazard

Reactivity

Specific Hazard

**Changed Since Last
Revision** +
Notice to Reader

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