

7/14/05

DATE: 06/29/05 ACCT: 888235001 INDEX: D51798208 CAT NO: BP332500 PO NBR: MARY PINKERTON/VC/062805

**** MATERIAL SAFETY DATA SHEET ****

Sodium phosphate dibasic anhydrous 08330

**** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ****

MSDS Name: Sodium phosphate dibasic anhydrous Catalog Numbers: S80191-3, S80191-4, BP332-1, BP332-500, NC9502028, NC9505337, NC9517943, NC9645037, NC9689469, NC9824048, NC9906780, S374-1, S374-10, S374-250LB, S374-3, S374-300L, S374-300LB, S374-50, S374-500, S375-12, S375-212, S375-250LB, S375-500, S378-12, S378-212, S379-12, S379-212, S379-250LB, S379-50, S393-3, ZS8374124

Synonyms: Phosphoric acid, disodium salt; Sodium orthophosphate, dibasic. Company Identification: Fisher Scientific 1 Reagent Lane Fairlawn, 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 ****

Table with 4 columns: CAS#, Chemical Name, %, EINECS#. Row 1: 7558-79-4, Sodium phosphate, dibasic, >95, 231-448-7

Hazard Symbols: None Listed. Risk Phrases: None Listed.

**** SECTION 3 - HAZARDS IDENTIFICATION ****

EMERGENCY OVERVIEW

Appearance: white solid. Caution! May cause respiratory tract irritation. Causes mild skin irritation. Causes mild eye irritation. Target Organs: No data found.

Potential Health Effects

- Eye: Causes mild eye irritation. May cause chemical conjunctivitis. Skin: Causes mild skin irritation. Ingestion: Ingestion of large amounts may cause gastrointestinal irritation. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. Inhalation: May cause respiratory tract irritation. Can produce delayed pulmonary edema. Chronic: Effects may be delayed.

**** SECTION 4 - FIRST AID MEASURES ****

- Eyes: Immediately 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. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. 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. Notes to Physician: Treat symptomatically and supportively.

**** SECTION 5 - FIRE FIGHTING MEASURES ****

General Information: Material will not burn. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Wear appropriate protective clothing to prevent contact with skin and eyes. Wear a self-contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products. Use extinguishing media appropriate to the surrounding fire. Extinguishing Media: Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

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Autoignition Temperature: Not applicable. Flash Point: Not applicable. Explosion Limits, lower: Not available. Explosion Limits, 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 precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

**** SECTION 7 - HANDLING and STORAGE ****

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. Use with adequate ventilation. Wash clothing before reuse. Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

**** 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.

Table with 4 columns: Chemical Name, ACGIH, NIOSH, OSHA - Final PELs. Row 1: Sodium phosphate, dibasic, none listed, none listed, none listed

OSHA Vacated PELs: Sodium phosphate, dibasic: 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 a respirator's use.

**** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ****

Physical State: Solid Color: white Odor: odorless pH: 8.7-9.3 (Solution) Vapor Pressure: Not available Vapor Density: Not available Evaporation Rate: Not applicable Viscosity: Not available Boiling Point: Not applicable Freezing/Melting Point: 118 deg F Decomposition Temperature: Not available Solubility in water: 104% @ 40C for water. Specific Gravity/Density: 1.67 (Water=1) Molecular Formula: Na2HPO4 Molecular Weight: 141.958

**** SECTION 10 - STABILITY AND REACTIVITY ****

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions. Conditions to Avoid:

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Incompatible materials, dust generation, exposure to air, excess heat.
 Incompatibilities with Other Materials:
 Strong oxidizing agents, strong bases.
 Hazardous Decomposition Products:
 Oxides of phosphorus, irritating and toxic fumes and gases, sodium oxide.
 Hazardous Polymerization: Has not been reported.

**** SECTION 11 - TOXICOLOGICAL INFORMATION ****

RTECS#:
 CAS# 7558-79-4: WC4500000
 LD50/LC50:
 CAS# 7558-79-4: Draize test, rabbit, eye: 500 mg/24H Mild; Draize test, rabbit, skin: 500 mg/24H Mild; Oral, rat: LD50 = 17 gm/kg.
 Carcinogenicity:
 Sodium phosphate, dibasic -
 Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
 Epidemiology:
 No information available.
 Teratogenicity:
 No information available.
 Reproductive Effects:
 No information available.
 Neurotoxicity:
 No information available.
 Mutagenicity:
 No information available.
 Other Studies:
 See actual entry in RTECS for complete information.

**** SECTION 12 - ECOLOGICAL INFORMATION ****

**** 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
 No information available
 Canadian TDG
 No information available.

**** SECTION 15 - REGULATORY INFORMATION ****

US FEDERAL

TSCA
 CAS# 7558-79-4 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.
 SARA
 CERCLA Hazardous Substances and corresponding RQs
 CAS# 7558-79-4: 5000 lb final RQ; 2270 kg final RQ
 SARA Section 302 Extremely Hazardous Substances
 None of the chemicals in this product have a TRQ.
 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 depleters.
 This material does not contain any Class 2 Ozone depleters.
 Clean Water Act:
 CAS# 7558-79-4 is listed as a Hazardous Substance 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

Sodium phosphate, dibasic can be found on the following state right

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to know lists: California, New Jersey, Pennsylvania, Massachusetts.
 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# 7558-79-4: 1
 United Kingdom Occupational Exposure Limits
 United Kingdom Maximum Exposure Limits
 Canada
 CAS# 7558-79-4 is listed on Canada's DSL List.
 This product has a WHMIS classification of D2B.
 CAS# 7558-79-4 is not listed on Canada's Ingredient Disclosure List.
 Exposure Limits

**** SECTION 16 - ADDITIONAL INFORMATION ****

MSDS Creation Date: 7/12/1999 Revision #4 Date: 3/05/2003

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 way shall the company 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 the company has been advised of the possibility of such damages.