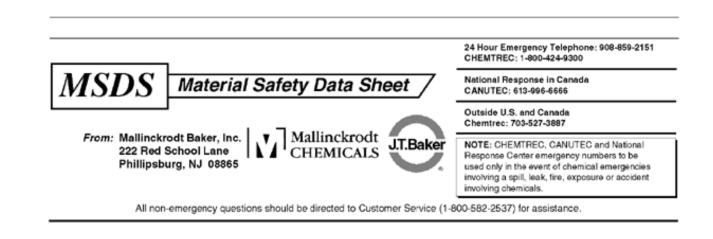
MSDS Number: S4752 * * * * Effective Date: 02/16/06 * * * * * Supercedes: 06/16/03



Sodium Phosphate Monobasic Anhydrous

1. Product Identification

Synonyms: Sodium biphosphate; Sodium acid phosphate; Sodium dihydrogen phosphate CAS No.: 7558-80-7 Molecular Weight: 119.98 Chemical Formula: NaH2 PO4 Product Codes: J.T. Baker: 3823 Mallinckrodt: 7869

2. Composition/Information on Ingredients

Ingredient Hazardous	CAS No	Percent
Sodium Biphosphate Yes	7558-80-7	98 - 100%

3. Hazards Identification

Emergency Overview

CAUTION! MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT. MAY BE HARMFUL IF SWALLOWED OR INHALED.

SAF-T-DATA^(tm) Ratings (Provided here for your convenience)

Health Rating: 2 - Moderate (Life) Flammability Rating: 0 - None Reactivity Rating: 1 - Slight Contact Rating: 2 - Moderate Lab Protective Equip: GOGGLES; LAB COAT; VENT HOOD; PROPER GLOVES Storage Color Code: Green (General Storage)

Potential Health Effects

Inhalation:

May cause irritation to the respiratory tract. Symptoms may include coughing and shortness of breath.

Ingestion:

Phosphates are slowly and incompletely absorbed when ingested, and seldom result in systemic effects. Such effects, however, have occurred. Symptoms may include vomiting, lethargy, diarrhea, blood chemistry effects, heart disturbances and central nervous system effects. The toxicity of phosphates is because of their ability to sequester calcium.

Skin Contact:

Irritant due to its acidic nature. May cause inflammation and pain on prolonged contact, especially with moist skin. **Eye Contact:**

May cause irritation, redness and pain.

Chronic Exposure:

May sequester calcium and cause calcium phosphate deposits in the kidneys.

Aggravation of Pre-existing Conditions:

No information found.

4. First Aid Measures

Inhalation:

Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion:

Give large amounts of water to drink. Never give anything by mouth to an unconscious person. Get medical attention. **Skin Contact:**

Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

5. Fire Fighting Measures

Fire: Not considered to be a fire hazard. **Explosion:** Not considered to be an explosion hazard. Fire Extinguishing Media:

Use any means suitable for extinguishing surrounding fire.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal. Small amounts of residue may be flushed to sewer with plenty of water.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

None established.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

For conditions of use where exposure to the dust or mist is apparent, a half-face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear protective gloves and clean body-covering clothing.

Eye Protection:

Safety glasses. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance:

White crystalline powder. **Odor:** Odorless. Sodium Phosphate Monobasic Anhydrous

Solubility: 59.9 g/100g @ 0C (32F) **Specific Gravity:** 2.04 pH: 4.5 % Volatiles by volume @ 21C (70F): 0 **Boiling Point:** 204C (399F) **Melting Point:** No information found. Vapor Density (Air=1): No information found. Vapor Pressure (mm Hg): No information found. **Evaporation Rate (BuAc=1):** No information found.

10. Stability and Reactivity

Stability:
Stable under ordinary conditions of use and storage. Slightly hygroscopic.
Hazardous Decomposition Products:
Phosphorus oxides may form when heated to decomposition.
Hazardous Polymerization:
Will not occur.
Incompatibilities:
No incompatibility data found.
Conditions to Avoid:
No information found.

11. Toxicological Information

Anhydrous: Oral Rat LD50: 8290 mg/kg.

\Cancer Lists\			
	NTP Carcinogen		
Ingredient	Known	Anticipated	IARC Category
Sodium Biphosphate (7558-80-7)	No	No	None

12. Ecological Information

Environmental Fate: No information found.

Environmental Toxicity: No information found.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated.

15. Regulatory Information

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-----\Chemical Inventory Status - Part 1\-----
                                   TSCA EC Japan Australia
 Ingredient
 _____
                                   _____ ____
 Sodium Biphosphate (7558-80-7)
                                   Yes Yes Yes
Yes
 -----\Chemical Inventory Status - Part 2\-----
                                        --Canada--
                                            NDSL Phil.
                                   Korea DSL
 Ingredient
 _____
                                            ____ ____
 Sodium Biphosphate (7558-80-7)
                                   Yes
                                        Yes
                                            No
                                                Yes
 -----\Federal, State & International Regulations - Part 1\------
                               -SARA 302- ----SARA 313-----
                                   TPQ
 Ingredient
                               RO
                                        List Chemical Catg.
 _____
                                   ____
                                        _____
 Sodium Biphosphate (7558-80-7)
                               No
                                   No
                                        No
                                                No
 -----\Federal, State & International Regulations - Part 2\------
                                      -RCRA- -TSCA-
                                     261.33
 Ingredient
                               CERCLA
                                             8(d)
 _____
                                      _____
                                             ____
 Sodium Biphosphate (7558-80-7)
                               No
                                      No
                                             No
Chemical Weapons Convention: No TSCA 12(b): No
                                      CDTA: No
SARA 311/312: Acute: Yes Chronic: No Fire: No Pressure: No
Reactivity: No
            (Pure / Solid)
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Australian Hazchem Code: None allocated. Poison Schedule: None allocated. WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: 1 Flammability: 0 Reactivity: 0

Label Hazard Warning:

CAUTION! MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT. MAY BE HARMFUL IF SWALLOWED OR INHALED.

Label Precautions:

Avoid contact with eyes, skin and clothing.

Wash thoroughly after handling.

Avoid breathing dust.

Keep container closed.

Use with adequate ventilation.

Label First Aid:

If inhaled, remove to fresh air. Get medical attention for any breathing difficulty. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists. If swallowed, give large amounts of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.

Product Use:

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