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## MATERIAL SAFETY DATA SHEET (MSDS)

### SODIUM PHOSPHATE MONOBASIC AR (ANHYDROUS)

#### 1. Product Identification

**Synonyms:** Sodium phosphate monobasic, monohydrate; Sodium biphosphate, monohydrate; Sodium acid phosphate, monohydrate; Sodium dihydrogen phosphate, monohydrate

**CAS No.:** 7558-80-7 (Anhydrous); 10049-21-5 (Monohydrate)

Product Coad: S0190700500

**Molecular Weight:** 137.99

**Chemical Formula:** NaH<sub>2</sub> PO<sub>4</sub> H<sub>2</sub>O

#### 2. Composition/Information on Ingredients

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

#### 3. Hazards Identification

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

**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.

#### 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 well closed container stored under cold to warm conditions, 2 to 40 C, (36 to 104F). 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 dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type

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N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. 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. **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:** 100C (212F) Loses water

#### 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.

#### 11. Toxicological Information

Anhydrous: Oral Rat LD50: 8290 mg/kg.

---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

NON HAZARDOUS FOR AIR, ROAD AND SEA TRANSPORT

#### 15. REGULATORY

SARA Title III: N/A Federal Regulatory: N/A

#### 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:** Laboratory Reagent

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In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

**End of document**