



Material Safety Data Sheet (MSDS)

Product Name: Mono Sodium Phosphate Anhydrous USP grade

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

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1. Identification of the Substance/Preparation and Company

Product Name: Mono Sodium Phosphate Anhydrous USP Grade

Synonyms: Sodium dihydrogen phosphate anhydrous; Monosodium phosphate

Chemical Formula: NaH_2PO_4

Molecular Weight: 119.98 g/mol

Recommended Use: Used in pharmaceuticals, food additives, laboratory reagents, and buffer solutions.

2. Hazard Identification

Classification (GHS): Not classified as hazardous.

Signal Word: None

Hazard Statements: Not considered hazardous under normal handling conditions.

Precautionary Statements: Avoid contact with eyes, skin, and clothing. Avoid inhalation of dust. Use with adequate ventilation.

3. Composition / Information on Ingredients

Mono Sodium Phosphate Anhydrous (CAS No. 7558-80-7) is the single ingredient in this product, with a purity of not less than 99%. It is an inorganic compound consisting of sodium, hydrogen, and phosphate, commonly used in pharmaceutical and food-grade applications.

4. First Aid Measures

- **Inhalation:** Move to fresh air. If symptoms persist, seek medical attention.
 - **Skin Contact:** Wash with plenty of water. Remove contaminated clothing.
 - **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present.
 - **Ingestion:** Rinse mouth. Do not induce vomiting. Seek medical advice if discomfort persists.
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5. Fire-Fighting Measures

Suitable Extinguishing Media: Water spray, dry chemical, CO₂, or foam.

Specific Hazards: Non-flammable. In case of fire, decomposition may release phosphorous oxides (PO_x).

Protective Equipment: Firefighters should wear self-contained breathing apparatus and protective clothing.

6. Accidental Release Measures

Avoid generating dust. Sweep up and place in a suitable container for disposal. Avoid release into drains or watercourses. Ensure adequate ventilation.

7. Handling and Storage

Handling: Handle in accordance with good industrial hygiene. Avoid breathing dust or contact with eyes and skin.

Storage: Store in a cool, dry, well-ventilated place. Keep container tightly closed. Protect from moisture and incompatible materials (strong acids, bases).

8. Exposure Controls / Personal Protection

Occupational Exposure Limits: Not established.

Engineering Controls: Provide adequate ventilation and dust control.

Personal Protective Equipment:

- Respiratory protection: Dust mask if airborne dust is generated.
- Eye protection: Safety goggles.
- Skin protection: Gloves and protective clothing.
Hygiene Measures: Wash thoroughly after handling.

9. Physical and Chemical Properties

Appearance: White crystalline powder

Odor: Odorless

Solubility: Soluble in water

pH (1% solution): 4.1 – 4.5

Melting Point: >190°C (decomposes)

Density: 2.36 g/cm³

Boiling Point: Not applicable

Flash Point: Non-flammable

10. Stability and Reactivity

Stability: Stable under recommended conditions.

Incompatible Materials: Strong acids, bases, and oxidizing agents.

Decomposition Products: Phosphorous oxides.

Conditions to Avoid: Excess heat and moisture.

11. Toxicological Information

Acute toxicity is low. The oral LD50 in rats is approximately 8290 mg/kg. It is non-irritating to the skin and may cause mild eye irritation. No evidence of carcinogenic, mutagenic, or reproductive toxicity has been reported.

12. Ecological Information

Mono Sodium Phosphate Anhydrous presents low environmental hazard. It is inorganic and expected to persist in the environment. The compound is not bioaccumulative and has high mobility in water due to its solubility.

13. Disposal Considerations

Dispose of in accordance with local, regional, and national regulations. Avoid release into sewers or waterways. Empty containers should be rinsed and recycled or disposed of in an approved facility.

14. Transport Information (Detailed Information)

Mono Sodium Phosphate Anhydrous USP Grade is **not classified as hazardous for transport** under any international transport regulation.

It is **not assigned a UN number** and **does not fall under any specific transport class**.

There is **no packing group** or labeling requirement.

The product is **not a marine pollutant** and poses no environmental hazard during transport. It can be safely shipped by **road (ADR/RID)**, **air (IATA/ICAO)**, **sea (IMDG)**, or **rail**, provided containers are properly sealed and protected from moisture.

During transport, ensure that packaging remains intact to avoid contamination, spillage, or exposure to incompatible substances. Store away from foodstuffs and feed products.

15. Regulatory Information

This product is not classified as hazardous under GHS or local regulations. It complies with USP specifications for pharmaceutical and food-grade materials. No special labeling is required under normal use conditions.

16. Other Information

Disclaimer:

The information contained in this MSDS is believed to be accurate and reliable as of the revision

date. However, no warranty or representation is made regarding its accuracy or completeness. Users are advised to make their own determination of the suitability of the material for their particular purposes and to handle it in accordance with good industrial hygiene and safety practices.

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