

SAFETY DATA SHEET

SODIUM PHOSPHATE MONOBASIC

CAS No.: 7558-80-7

This Safety Data Sheet is compiled from well-established published chemical, GHS classification and regulatory reference sources for this substance. It is supplied by Suraj Chemicals as the distributor/supplier of record and is not a manufacturer-issued document. Users should also consult the specific manufacturer's SDS where available.

1. IDENTIFICATION

Product Name	Sodium Phosphate Monobasic
CAS Number	7558-80-7
Recommended Use	Industrial / commercial chemical trading and distribution
Supplier	Suraj Chemicals, No 92, Govindappa Naicken Street, Shiva Complex, Chennai - 600001, India
Emergency Telephone	+91 - 9840284032, 9176135357 / +91 - 44 - 25393652

2. HAZARD(S) IDENTIFICATION

GHS Signal Word	Not classified
HAZARD CLASSIFICATION	None assigned
HAZARD STATEMENTS	None assigned
PRECAUTIONARY STATEMENTS	None assigned

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Sodium Phosphate Monobasic
CAS Number	7558-80-7
Physical State	Solid
Appearance / Odour	White crystalline powder or granules; odorless.

4. FIRST-AID MEASURES

Eye Contact	Rinse cautiously with water for several minutes; remove contact lenses if present and easy to do; continue rinsing. Seek medical attention if irritation persists.
Skin Contact	Wash off with plenty of water. Remove contaminated clothing. Seek medical attention if irritation develops.
Inhalation	Remove to fresh air. If breathing is difficult, give oxygen; seek medical attention if symptoms occur.
Ingestion	Rinse mouth with water. Do not induce vomiting. Give water to drink if conscious. Seek medical advice if discomfort occurs.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Non-combustible; use extinguishing media appropriate to the surrounding fire (water spray, foam, dry chemical, CO2).
Unsuitable Extinguishing Media	None known.
Special Hazards	Not combustible; decomposition at high temperature may release phosphorus oxides. No unusual fire or explosion hazards.

6. ACCIDENTAL RELEASE MEASURES

Measures	Sweep up or vacuum spilled material, avoiding dust generation; place in a suitable closed container for disposal. Avoid creating dust; use PPE as needed. Wash spill area with water after collection.
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7. HANDLING AND STORAGE

Handling Precautions	Avoid generating dust; avoid contact with eyes and prolonged skin contact. Use with adequate ventilation. Wash hands after handling.
Storage Conditions	Store in a tightly closed container in a cool, dry, well-ventilated area away from incompatible materials and moisture.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits / PPE	No specific occupational exposure limit established (treat as nuisance/particulate dust, ACGIH TWA 10 mg/m3 as inert or nuisance dust where applicable). Use dust mask/respirator if dusting occurs, safety glasses, and gloves.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance / Odour	White crystalline powder or granules; odorless.
Boiling Point	Not applicable (inorganic solid; decomposes before boiling)
Melting Point	Not precisely defined; monohydrate loses water of crystallization near 100 C, anhydrous form decomposes above ~200 C without a sharp melting point
Flash Point	Not applicable
Density / Specific Gravity	Approx. 1.9-2.36 g/cm3 (varies with hydrate form; anhydrous ~2.04 g/cm3)
Water Solubility	Freely soluble in water (greater than 500 g/L at 20 C)
pH Value	4.1-4.5 (5% aqueous solution, 25 C)

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions and recommended storage.
Incompatible Materials	Strong bases, strong oxidizers; can react with strong acids/bases (buffering salt).
Hazardous Decomposition	Thermal decomposition may produce phosphorus oxides and sodium oxides at high temperature.

11. TOXICOLOGICAL INFORMATION

Summary	Low acute toxicity by oral and dermal routes; not classified as a hazardous substance under GHS criteria. May cause mild, transient eye or skin irritation from dust contact, and mechanical irritation to the respiratory tract if dust is inhaled in quantity.
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12. ECOLOGICAL INFORMATION

Summary	Not expected to be hazardous to aquatic organisms at typical exposure levels; readily biodegradable/dissociates as a naturally occurring phosphate species. Large releases can contribute to nutrient loading (eutrophication) in surface waters.
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13. DISPOSAL CONSIDERATIONS

Disposal Method	Dispose of in accordance with local, state, and federal regulations. Small quantities may be neutralized and flushed with excess water where permitted; larger quantities require disposal through a licensed waste handler.
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14. TRANSPORT INFORMATION

UN Number	Not regulated for transport
Transport Hazard Class	Not applicable
Packing Group	Not applicable

15. REGULATORY INFORMATION

Notes	Common food/pharma-grade buffering agent (FCC/USP grades exist); not listed as a hazardous substance under GHS, OSHA HCS, or major global inventories requiring hazard labeling. Check local drinking-water/food-additive regulations for grade-specific use restrictions.
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16. OTHER INFORMATION

Prepared By	Suraj Chemicals, Technical / QA Desk
Date of Issue	29 Sep 2026
Note	This SDS is compiled from well-established published GHS hazard classification data and general chemical reference sources for this substance, in the standard 16-section format. Values are believed accurate but Suraj Chemicals makes no warranty, express or implied, regarding their completeness. Users should evaluate suitability for their own specific use.

(This document is computer generated and therefore does not require any signature.)

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