

SAFETY DATA SHEET
Monosodium Phosphate

Page 1
Issued: 06/07/2026
Revision No: 4

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product identifier:

Product Name: SODIUM DIHYDROGENORTHOPHOSPHATE

EC Number: 231-449-2

CAS No: 7558-80-7

Synonyms: SODIUM DIHYDROGEN ORTHOPHOSPHATE, MONOSODIUM MONOPHOSPHATE, MONOSODIUM ORTHOPHOSPHATE, MONOSODIUM PHOSPHATE, SODIUM DIHYDROGEN PHOSPHATE ANHYDROUS POWDER, MONOSODIUM PHOSPHATE, ANHYDROUS, TECHNICAL GRADE, MONOSODIUM PHOSPHATE ANHYDROUS E339 (I) PDR FSA, PRAYPHOS MSP FG/FG GR, MONOSOD PHOS ANH (MSP), MONOSOD PHOS ANH MSP TG, PRAYPHOS MSP TG/TG GR, MONOSOD PHOS ANH TECH PDR, MONOSOD PHOS ANH PRAYPHOS.

Pure substance/mixture: Substance

Relevant identified uses of the substance or mixture and uses advised against:

Recommended use: Industrial application
Food industry
Chemical
Pharmaceuticals

Details of the supplier of the safety data sheet:

Company name: Nexchem Ltd
Unit 3 Barshaw Park
Leycroft Road
Leicester
LE4 1ET
Tel: 0116 2311130
24/7 Emergency Tel: 0800 246 1274
Email: sales@nexchem.co.uk

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture: Not classified

Label elements: Not classified

Hazard statements: Not classified

Other hazards: No information available.

SAFETY DATA SHEET

Monosodium Phosphate

Issued: 06/07/2026

Page 2

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances:

Chemical name	Weight-%	EC No (EU Index No)	UK REACH reg no.	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
SODIUM DIHYDROGENORTHOPHOSPHATE 7558-80-7	<100%	231-449-2	-	-	-	-	-

Full text of H- and EUH-phrases: See section 16.

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (UK REACH Article 59)

4. FIRST AID MEASURES

Description of first aid measures:

General advice: Show this safety data sheet to the doctor in attendance. Keep victim under observation.
Never give anything by mouth to an unconscious person.

Inhalation: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
Rinse mouth thoroughly with water. Get medical attention if symptoms occur.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms occur.

Skin contact: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if symptoms occur.

Ingestion: Rinse mouth thoroughly with water. Keep respiratory tract clear. Do NOT induce vomiting.
Do not give milk or alcoholic beverages. Get medical attention if symptoms occur.

Most important symptoms and effects, both acute and delayed:

Symptoms:

Eyes: Solid particles trapped behind the eyelid may cause abrasive damage.

Indication of any immediate medical attention and special treatment needed:

Note to doctors: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Large Fire: CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media: Do not scatter spilled material with high pressure water streams.

[cont...]

SAFETY DATA SHEET

Monosodium Phosphate

Issued: 06/07/2026

Page 3

Special hazards arising from the substance or mixture:

Specific hazards arising from the chemical:

When heated and in case of fire, toxic vapours/gases may be formed. Do not allow run-off from fire-fighting to enter drains or water courses.

Hazardous combustion products: Carbon oxides.

Advice for firefighters:

Special protective equipment and precautions for fire-fighters:

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal precautions: Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid generation of dust.

For emergency responders: Use personal protection recommended in Section 8.

Environmental precautions: See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up:

Methods for containment: Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Pick up and transfer to properly labelled containers. Clean contaminated objects and areas thoroughly observing environmental regulations.

Prevention of secondary hazards: Clean contaminated objects and areas thoroughly observing environmental regulations.

Reference to other sections: See section 8 for more information. See section 13 for more information.

7. HANDLING AND STORAGE

Precautions for safe handling:

Advice on safe handling: Provide appropriate exhaust ventilation at places where dust is formed. Use personal protection recommended in Section 8. Avoid contact with eyes, skin and clothing. Do not breathe dust. Do not eat, drink or smoke when using this product. Avoid generation of dust.

General hygiene considerations: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. Do not eat, drink or smoke when using the product.

Conditions for safe storage, including any incompatibilities:

Storage Conditions: Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the technological safety standard.

Specific end use(s):

Specific use(s): See section 1 for more information.

Risk Management Methods (RMM): The information required is contained in this Safety Data Sheet.

[cont...]

SAFETY DATA SHEET

Monosodium Phosphate

Issued: 06/07/2026

Page 4

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Exposure Limits: This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

Biological occupational exposure limits: This product, as supplied, does not contain any hazardous materials with biological limits established by the region-specific regulatory bodies.

Derived No Effect Level (DNEL) – Workers:

[4] Systemic health effects.

[6] Long term.

Derived No Effect Level (DNEL) - General Public:

[4] Systemic health effects.

[6] Long term.

Predicted No Effect Concentration (PNEC):

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
SODIUM DIHYDROGENORTHOPH OSPHATE 7558-80-7	0.05 mg/L	0.5 mg/L	0.005 mg/L		

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
SODIUM DIHYDROGENORTHOPH OSPHATE 7558-80-7			50 mg/L		

Exposure controls:

Engineering controls: No information available.

Personal protective equipment:

Eye/face protection: Wear safety glasses with side shields (or goggles). Use eye protection according to EN ISO 16321-1.

Hand protection: Wear suitable gloves. Gloves must conform to standard EN 374.

Skin and body protection: Wear appropriate clothing to prevent reasonably probable skin contact.

Respiratory protection: Use appropriate respiratory protection.

Recommended filter type: Particulates type (P). Particulates filter conforming to EN 143.

General hygiene considerations: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. Do not eat, drink or smoke when using the product.

[cont...]

SAFETY DATA SHEET

Monosodium Phosphate

Issued: 06/07/2026

Page 5

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state:	Solid
Appearance:	Dusty powder Crystalline powder solid
Colour:	Colourless To white
Odour:	Odourless.
Odour threshold:	No information available

Property	Values	Remarks • Method
Melting point / freezing point:	> 450°C	
Initial boiling point and boiling range:		No information available.
Flammability:		Not expected to form explosive dust-air mixtures.
Flammability Limit in Air:		No information available.
Upper flammability or explosive limits:		
Lower flammability or explosive limits:		
Flash point:		Not applicable.
Autoignition temperature:		No information available.
Decomposition temperature:		No information available.
pH:	4.1 - 5.0	Solution (1 %).
pH (as aqueous solution):		No information available.
Kinematic viscosity:		No information available.
Dynamic viscosity:		No information available.
Water solubility:	Soluble in water 800 g/l @ 20°C	
Solubility(ies):		No information available.
Partition coefficient:	log Pow: -2	
Vapour pressure:		No information available.
Relative density:	0.65 - 1.40	
Bulk density:	900 - 1200 kg/m ³	
Liquid Density:	No information available	No information available
Relative vapour density:		No information available.
Particle characteristics:		No information available.
Particle Size:	No information available	
Particle Size Distribution:	No information available	
Explosive properties:	Not considered to be explosive.	
Oxidising properties:	Does not meet the criteria for classification as oxidising	
Other information:		

10. STABILITY AND REACTIVITY

Reactivity:	No known effects under normal use conditions.
Chemical stability:	
Stability:	Stable under normal conditions.
Explosion data:	
Sensitivity to mechanical impact:	None.
Sensitivity to static discharge:	None.

[cont...]

SAFETY DATA SHEET

Monosodium Phosphate

Issued: 06/07/2026

Page 6

Possibility of hazardous reactions: None under normal processing.

Conditions to avoid: None known based on information supplied.

Incompatible materials: None known based on information supplied.

Hazardous decomposition products: Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Information on likely routes of exposure:

Product Information:

Inhalation: Inhalation of dust in high concentration may cause irritation of respiratory system.

Eye contact: Solid particles trapped behind the eyelid may cause abrasive damage.

Skin contact: Non-irritating during normal use.

Ingestion: May cause discomfort if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics:

Symptoms:

Acute toxicity:

Numerical measures of toxicity:

Component Information:

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
SODIUM DIHYDROGENORTHOPHOSPHATE	>2000 mg/kg (Rat)	>2000 mg/kg (Rat)	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Skin corrosion/irritation: Based on available data the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data the classification criteria are not met.

Respiratory or skin sensitisation: Based on available data the classification criteria are not met.

Germ cell mutagenicity: Based on available data the classification criteria are not met.

Carcinogenicity: Based on available data the classification criteria are not met.

Reproductive toxicity: Based on available data the classification criteria are not met.

STOT - single exposure: Based on available data the classification criteria are not met.

STOT - repeated exposure: Based on available data the classification criteria are not met.

Aspiration hazard: Based on available data the classification criteria are not met.

Other adverse effects: No information available.

12. ECOLOGICAL INFORMATION

Toxicity:

Ecotoxicity: The environmental impact of this product has not been fully investigated.

Persistence and degradability: No information available.

Bioaccumulative potential:

Bioaccumulation: There is no data for this product.

[cont...]

SAFETY DATA SHEET

Monosodium Phosphate

Issued: 06/07/2026

Page 7

Mobility in soil: Soluble in water.

Results of PBT and vPvB assessment:

PBT and vPvB assessment: The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
SODIUM DIHYDROGENORTHOPHOSPHATE	PBT assessment does not apply

Other adverse effects: No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Waste from residues/unused products: Dispose of in accordance with local regulations.

Dispose of waste in accordance with environmental legislation.

Contaminated packaging: Do not reuse empty containers.

14. TRANSPORT INFORMATION

IATA:

UN number or ID number: Not regulated

UN proper shipping name: Not regulated

Transport hazard class(es): Not regulated

Packing group: Not regulated

Environmental hazards: No

Special precautions for user:

Special Provisions: None

IMDG:

UN number or ID number: Not regulated

UN proper shipping name: Not regulated

Transport hazard class(es): Not regulated

Packing group: Not regulated

Environmental hazards: No

Special precautions for user:

Special Provisions: None

Maritime transport in bulk according to IMO instruments: No information available

RID:

UN number or ID number: Not regulated

UN proper shipping name: Not regulated

Transport hazard class(es): Not regulated

Packing group: Not regulated

Environmental hazards: No

Special precautions for user:

Special Provisions: None

[cont...]

SAFETY DATA SHEET

Monosodium Phosphate

Issued: 06/07/2026

Page 8

ADR:

UN number or ID number:	Not regulated
UN proper shipping name:	Not regulated
Transport hazard class(es):	Not regulated
Packing group:	Not regulated
Environmental hazards:	No
Special precautions for user:	
Special Provisions:	None

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

National regulations:

Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (UK REACH - Annex XIV).

This product does not contain substances subject to restriction (UK REACH - Annex XVII).

Persistent Organic Pollutants: Not applicable

Export Notification requirements: Not applicable

Named dangerous substances per COMAH Regulations 2015 (as amended): Not applicable

The Ozone-Depleting Substances Regulations 2015: Not applicable

The Biocidal Products Regulations 2001 (as amended): Not applicable

The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended): Not applicable

Poisons Act 1972 (Explosive Precursors) Regulations (as Amended): Not applicable

International Inventories:

TSCA: Contact supplier for inventory compliance status.

DSL/NDSL: Contact supplier for inventory compliance status.

EINECS/ELINCS: Contact supplier for inventory compliance status.

ENCS: Contact supplier for inventory compliance status.

IECSC: Contact supplier for inventory compliance status.

KECI: Contact supplier for inventory compliance status.

PICCS: Contact supplier for inventory compliance status.

AIIC: Contact supplier for inventory compliance status.

NZIoC: Contact supplier for inventory compliance status.

Legend:

TSCA United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS: Japan Existing and New Chemical Substances

IECSC: China Inventory of Existing Chemical Substances

KECL: Korean Existing and Evaluated Chemical Substances

PICCS: Philippines Inventory of Chemicals and Chemical Substances

AIIC: Australian Inventory of Industrial Chemicals

NZIoC: New Zealand Inventory of Chemicals

[cont...]

SAFETY DATA SHEET
Monosodium Phosphate

Issued: 06/07/2026

Page 9

Chemical safety assessment:

Chemical Safety Report: No information available.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet:

Legend:

SVHC: Substances of Very High Concern for Authorisation

Legend Section 8: Exposure controls/personal protection:

TWA TWA (time-weighted average)

STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value

***** Skin designation

+ Sensitisers

Legal disclaimer: The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.