



SUPREME PETRO CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
Periyamet, Chennai – 600003, India
+91 86087 80096 · +91 81979 47045
admin@supremepetrochemicals.com

SAFETY DATA SHEET (SDS)

Sodium Hexametaphosphate (SHMP) *SDS*

REV 3.1
29 JULY 2026
GHS REV.11 (2025)

CAS **10124-56-8** EC **233-343-1** SIGNAL WORD **DANGER**

GHS07

Harmful / Irritant

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

Product Name	SHMP (Sodium Hexametaphosphate)
Product Type	Sodium hexametaphosphate
Chemical Family	Inorganic phosphate
CAS No.	10124-56-8
EC No.	233-343-1
Intended Use	Industrial / professional use as listed on the SPC product page.
Restrictions on Use	Industrial / professional use only. Confirm grade suitability before regulated or consumer use.
Supplier	Supreme Petro Chemicals
Address	No. 145, 1st Floor, Raja Muthiah Road, Periyamet, Chennai – 600003, India
Emergency Contact	Sanketh — +91 86087 80096 · Sudarshan — +91 81979 47045
Email	admin@supremepetrochemicals.com
Product Page	https://www.supremepetrochemicals.com/products/shmp
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

Skin Irrit. 2 (H315); Eye Irrit. 2 (H319); STOT SE 3 (H335). Not classified for other GHS hazard classes based on reviewed source data.



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Signal Word

WARNING

GHS Pictograms

GHS07 (Harmful / Irritant)

HAZARD STATEMENTS

- H315 — Causes skin irritation
- H319 — Causes serious eye irritation
- H335 — May cause respiratory irritation

PRECAUTIONARY – PREVENTION

- P260 — Do not breathe dust / fume / gas / mist / vapours / spray.
- P264 — Wash hands thoroughly after handling.
- P271 — Use only outdoors or in a well-ventilated area.
- P272 — Contaminated work clothing should not be allowed out of the workplace.
- P280 — Wear protective gloves / eye protection / face protection.

PRECAUTIONARY – RESPONSE / STORAGE / DISPOSAL

- P302+P352 — IF ON SKIN: Wash with plenty of water.
- P304+P340 — IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 — IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P312 — Call a POISON CENTER or doctor if you feel unwell.
- P321 — Specific treatment (see supplemental first aid instructions on this label).
- P330 — Rinse mouth.
- P332+P313 — If skin irritation occurs: Get medical advice / attention.
- P337+P313 — If eye irritation persists: Get medical advice / attention.
- P362+P364 — Take off contaminated clothing and wash it before reuse.
- P403+P233 — Store in a well-ventilated place. Keep container tightly closed.
- P405 — Store locked up.
- P501 — Dispose of contents / container in accordance with local regulations.



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SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	EC NO.	% W/W	GHS CLASSIFICATION
Sodium hexametaphosphate	10124-56-8	233-343-1	100	Skin Irrit. 2 (H315); Eye Irrit. 2 (H319); STOT SE 3 (H335)

Composition is by weight (w/w). Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Remove person to fresh air. If respiratory irritation or symptoms develop, seek medical attention. Keep comfortable for breathing.
Skin Contact	Remove contaminated clothing immediately. Wash affected skin thoroughly with soap and water. Seek medical attention if irritation or symptoms persist.
Eye Contact	Rinse cautiously with clean water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek immediate medical attention.
Ingestion	Rinse mouth thoroughly with water. Do not induce vomiting unless directed by medical personnel. Seek medical advice.
Note to Physician	Treat symptomatically based on exposure route and patient condition.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Product is not combustible. Use extinguishing media appropriate for the surrounding fire.
Unsuitable Media	Avoid high-pressure direct water jets where they may disperse or spread the material.
Specific Hazards	Not combustible under normal conditions. Fine dust or particulate may form irritating atmospheres. Containers may rupture if exposed to intense heat.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA) when fighting fires involving or adjacent to this material.
Special Procedures	Evacuate non-essential personnel. Prevent contaminated fire-water run-off from entering drains and watercourses.



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SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid generating and inhaling dust. Wear appropriate PPE (see Section 8). Ensure adequate ventilation.
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses. Report significant releases to relevant authorities as required by local regulations.
Containment / Clean-up	Avoid dust generation. Sweep or vacuum material into labelled, sealable containers. Do not flush to drain. Collect and transfer to approved waste contractor for disposal.
Reference to Sections	See Section 8 for PPE, Section 13 for disposal and Section 15 for regulatory information.

SECTION 7 HANDLING AND STORAGE

Handling Precautions	Avoid breathing dust. Handle in a well-ventilated area. Use appropriate dust controls. Keep container tightly closed when not in use.
Hygiene	Wash hands thoroughly after handling. Remove and wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.
Storage Conditions	Store in original, tightly closed compatible containers in a cool, dry, well-ventilated place. Inspect containers regularly for leakage or damage.
Storage Temperature	Store at ambient temperature unless supplier instructions specify otherwise.
Incompatible Materials	Strong oxidising agents (nitric acid, permanganates, peroxides), concentrated acids and halogens. Keep dry — moisture causes hydrolysis.
Segregation	Segregate from food, drink, animal feed, oxidising agents and incompatible chemicals.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	Sodium hexametaphosphate (CAS 10124-56-8): No specific OEL established universally. Apply ALARA / good industrial hygiene
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principles. Verify applicable OEL under OSHA / NIOSH / ACGIH / EU / India MSIHC before use.

Engineering Controls	Use local exhaust ventilation and / or closed handling systems to control dust generation. Provide general dilution ventilation adequate to maintain exposures below applicable limits.
Respiratory Protection	Where ventilation is inadequate or dust levels may exceed limits, use a NIOSH-approved or EN 149 P2/P3 particulate filtering respirator. Use SCBA for emergency or confined-space response.
Hand / Eye / Skin	Gloves: chemical-resistant (nitrile, butyl or neoprene). Eye / face: EN 166 / ANSI Z87.1 chemical splash goggles; add face shield where dust or splash risk is high. Body: chemical-resistant apron or coverall and safety footwear. Provide eyewash station and safety shower in working area.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White powder or granular solid.
Odour	Odourless to faintly characteristic.
Odour Threshold	Not established.
pH	Near neutral to mildly alkaline in aqueous solution (1% solution: approx. 6.5–7.5).
Melting / Freezing Point	Approx. 616 °C (decomposes / converts to orthophosphate above this temperature; supplier specification should be confirmed).
Boiling Point / Range	Not applicable — inorganic solid; decomposes before boiling.
Flash Point	Not applicable — product is not flammable.
Auto-ignition Temperature	Not applicable.
Flammability Limits	Not applicable.
Vapour Pressure	Negligible at ambient temperature (solid).
Vapour Density (air = 1)	Not applicable.
Relative Density	Approx. 2.18 g/cm ³ (bulk density lower; see supplier specification).
Solubility in Water	Soluble (approx. 680 g/L at 25 °C; hydrolysis occurs over time).
Log Pow (Partition Coeff.)	Not established for inorganic salt; log Pow concept not applicable.
Evaporation Rate	Not applicable (solid).
Viscosity	Not applicable (solid).
VOC Content	Negligible / zero (inorganic solid).



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SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions. Hydrolyses gradually in aqueous solution to orthophosphates.
Conditions to Avoid	Avoid excessive heat (above 616 °C), moisture ingress, and contact with incompatible materials.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides); concentrated acids and halogens. Moisture promotes hydrolysis. Reaction with aluminium chloride (AlCl ₃) possible at elevated temperature — not a concern under normal ambient storage.
Hazardous Decomposition	At high temperatures: phosphorus oxides (P ₂ O ₅ and related fumes), sodium oxides. No halogenated or sulphurous products expected. Products may be irritating or corrosive.
Hazardous Reactions	Will not occur under normal storage and handling conditions.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Based on GHS classification data for SHMP: LD ₅₀ (rat, oral) reported in the range of 3000–7400 mg/kg. Low acute oral toxicity; confirm supplier LD ₅₀ data. Classified: not acutely toxic by GHS criteria per available data.
Acute Dermal Toxicity	Data not fully established. Expected low acute dermal toxicity for inorganic phosphate salt. Classified: not acutely toxic dermally per available data; supplier confirmation recommended.
Acute Inhalation Toxicity	Dust may irritate the respiratory tract (see H335). LC ₅₀ data not established. Avoid generating and inhaling dust.
Skin Irritation	Causes skin irritation (H315). Classified Skin Irrit. 2 under GHS.
Eye Irritation	Causes serious eye irritation (H319). Classified Eye Irrit. 2 under GHS.
Sensitisation	Not classified as a skin or respiratory sensitizer based on available data.
Carcinogenicity	Not classified as a carcinogen by IARC, NTP, ACGIH or OSHA. Not listed in EU Annex VI as carcinogenic.
Mutagenicity	Not classified as mutagenic / genotoxic based on available data. Supplier or ECHA REACH dossier data should be confirmed for specific regulatory submissions.



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SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	No acute or chronic aquatic toxicity classification assigned in Section 2 from reviewed data. SHMP dissociates to orthophosphates in water; excess phosphate can contribute to eutrophication. Avoid release to surface waters.
Persistence / Degradability	Hydrolyses in aqueous solution to orthophosphates; not expected to persist as the parent polymer. Biodegradation as a phosphate source is expected; confirm supplier environmental data.
Bioaccumulation	Inorganic phosphate salt; log Kow not applicable. Bioaccumulation potential considered low.
Mobility in Soil	Soluble in water; mobile in soil and groundwater. Prevent release to soil and drains. Phosphate loading may affect soil nutrient balance.
Other Adverse Effects	Excessive phosphate input to aquatic systems may cause eutrophication. Manage releases and waste in accordance with applicable local environmental regulations.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste from Product	Dispose of contents through an authorised waste contractor in accordance with local regulations. Avoid discharge to drains or surface waters due to eutrophication risk.
Contaminated Packaging	Empty containers may retain residues; treat as potentially hazardous until cleaned or disposed. Decontaminate before recycling or arrange disposal through an approved contractor.
Indian Regulations	Follow applicable provisions of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016, Environment Protection Act 1986, and State Pollution Control Board requirements.

SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	Not regulated	Not regulated	Not regulated
Proper Shipping Name	Not subject to dangerous goods regulations	Not subject to dangerous goods regulations	Not subject to dangerous goods regulations



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PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
Class	Not applicable	Not applicable	Not applicable
Packing Group	Not applicable	Not applicable	Not applicable
Marine Pollutant	No	No	No

Sodium hexametaphosphate is not classified as a dangerous good under ADR, IMDG or IATA/ICAO. Use approved, compatible packaging. Verify current carrier and national transport authority requirements before shipment.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Subject to REACH Registration (EC No. 233–343–1). Classified and labelled in accordance with CLP Regulation (EC) No 1272/2008 as listed in Section 2. Observe REACH requirements for downstream users and importers.
OSHA (USA)	Prepared in OSHA HCS / HazCom 2012 (29 CFR 1910.1200) aligned 16–section SDS format. Verify TSCA inventory status before US import or distribution.
India	Observe applicable requirements under the Manufacture, Storage and Import of Hazardous Chemical (MSIHC) Rules 1989 (as amended), Factories Act 1948, and applicable State Pollution Control Board and CPCB regulations.
Other Jurisdictions	Canada: Classify and label under WHMIS 2015 / HPR using Section 2 classification; bilingual SDS / label may be required. China: Apply GB/T SDS and classification requirements where marketed. Australia: Check AICS inventory status before import. GCC / Middle East: Observe applicable GHS–aligned local requirements. Final market placement requires confirmation of inventory status, local OELs, waste code and any transport–specific restrictions.

SECTION 16 OTHER INFORMATION

Prepared By	Supreme Petro Chemicals — Technical Department
SDS Standard	UN GHS Rev.11 (2025); OSHA HCS/HazCom; EU CLP/REACH Annex II; Canada WHMIS/HPR — 16–section format
Revision Date	24 June 2026
Version	3.0 (supersedes prior issues)
Disclaimer	Information is given in good faith and believed accurate at issue. It does not constitute a specification or guarantee; the user is



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responsible for safe use, handling and compliance.

FULL TEXT OF H-STATEMENTS

- H315 — Causes skin irritation
 - H319 — Causes serious eye irritation
 - H335 — May cause respiratory irritation
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UN GHS REV.11 (2025) / REACH / OSHA HCS /
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