



SUPREME PETRO
CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
Periyamet, Chennai – 600003, India
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admin@supremepetrochemicals.com

SAFETY DATA SHEET (SDS)

CM-1000 (Sodium
Hexametaphosphate) *SDS*

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

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

GHS07

Irritant

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

Product Name	CM-1000
Product Type	Sodium Hexametaphosphate
Chemical Family	Inorganic phosphate
CAS No.	10124-56-8
EC No.	233-343-1
Intended Use	Industrial / professional chemical use as listed on the SPC product page.
Restrictions on Use	Industrial / professional use only. Do not use in consumer or medicinal applications unless separately qualified.
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/cm-1000
SDS Revision	July 2026
SDS Version	3.1



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SECTION 2 HAZARD IDENTIFICATION

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

Signal Word	WARNING
GHS Pictograms	GHS07 (Irritant)

HAZARD STATEMENTS

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

PRECAUTIONARY — PREVENTION

- P260 — Do not breathe dust or aerosols.
- P264 — Wash hands and exposed skin 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: treat symptomatically.
- 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.



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- P501 — Dispose of contents/container in accordance with local regulations.

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)

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

SECTION 4 FIRST AID MEASURES

Inhalation	Move to fresh air if dust is inhaled. Seek medical advice if coughing or irritation persists.
Skin Contact	Remove contaminated clothing. Wash affected skin thoroughly with water and soap. Seek medical attention if symptoms persist.
Eye Contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek medical attention if irritation persists.
Ingestion	Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek medical advice.
Note to Physician	Treat symptomatically based on exposure route and product hazards.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Not combustible. Use extinguishing media appropriate for the surrounding fire (water, foam, CO ² , dry chemical).
Unsuitable Media	Avoid high-pressure water jet that may disperse the material and contaminate runoff.
Specific Hazards	Dust or fine particulate may form irritating atmospheres at elevated temperatures. Containers may rupture when exposed to extreme heat.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA).



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Special Procedures	Evacuate non-essential personnel. Prevent contaminated fire-fighting water / run-off from entering drains and waterways.
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SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid dust generation. Wear appropriate PPE (see Section 8). Keep unnecessary persons away from spill area.
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses.
Containment / Clean-up	Sweep or vacuum carefully and place in labelled, closeable containers. Avoid generating dust. Collect material for disposal through an approved waste contractor.
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 or aerosols. Use in well-ventilated areas or with local exhaust ventilation. Handle in closed systems where practicable.
Hygiene	Wash hands and exposed skin thoroughly after handling. Remove contaminated clothing before reuse. Do not eat, drink or smoke when using.
Storage Conditions	Store dry, in tightly closed compatible containers, away from moisture and strong acids. Inspect containers regularly for leakage or damage.
Storage Temperature	Store at ambient temperature (15–35°C) unless supplier instructions specify otherwise.
Incompatible Materials	Strong oxidising agents, concentrated acids, halogens. See Section 10.
Segregation	Segregate from food, drink, animal feed and incompatible chemicals.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	Sodium hexametaphosphate (CAS 10124-56-8): No specific OSHA PEL or ACGIH TLV established. Apply ALARA / good industrial hygiene practice. Verify current local OEL (India OSHA / CPCB) with supplier or regional authority.
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Engineering Controls	Use local exhaust ventilation or enclosed handling systems to control dust. Provide general dilution ventilation where dust generation cannot be fully controlled.
Respiratory Protection	Where dust cannot be controlled to ALARA levels, use a NIOSH-approved or EN 149 particulate respirator (minimum P95/FFP2). Use SCBA in emergencies or confined spaces.
Hand / Eye / Skin	Hands: chemical-resistant gloves (nitrile, butyl, neoprene or PVC); select breakthrough time appropriate to task. Eyes/Face: EN 166 / ANSI Z87.1 chemical splash goggles; add face shield for dusty or bulk transfer operations. Body: chemical-resistant clothing or apron and safety footwear. Provide eyewash and safety shower in work area.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White powder or granular solid.
Odour	Characteristic (low odour).
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
Boiling Point / Range	Not applicable (solid; decomposes above melting point). See supplier specification.
Flash Point	Not applicable — non-flammable solid.
Auto-ignition Temperature	Not applicable — non-flammable.
Flammability Limits	Not applicable — non-flammable.
Vapour Pressure	Negligible at ambient temperature.
Vapour Density (air = 1)	Not applicable (solid).
Relative Density	Approx. 2.18 (bulk/apparent; true density approx. 2.4–2.5 — see flag)
Solubility in Water	Soluble (approx. 70 g/100 mL at 20°C).
Log Pow (Partition Coeff.)	Not established for commercial grade; expected to be low (hydrophilic inorganic salt).
Evaporation Rate	Not applicable (solid).
Viscosity	Not applicable (solid). See supplier specification for solution viscosity.
VOC Content	Nil (inorganic solid).



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SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions when protected from moisture and incompatible materials.
Conditions to Avoid	Avoid exposure to moisture / humidity (causes hydrolysis to orthophosphates), heat above melting point, and contamination with incompatible materials.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides); concentrated acids; halogens. Reactive with aluminium chloride (AlCl_3) at elevated temperature — not a concern under ambient blending or storage.
Hazardous Decomposition	Thermal decomposition above 616°C may yield phosphorus oxides and sodium oxides. In fire conditions, irritating fumes may be formed.
Hazardous Reactions	No hazardous polymerisation. Hydrolysis in water / humid conditions yields sodium orthophosphates (non-hazardous at normal concentrations). No other hazardous reactions under normal storage and handling.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Low acute oral toxicity. Published rat LD50 values for sodium hexametaphosphate: approx. 3,000–7,000 mg/kg (public references; exact value requires supplier confirmation).
Acute Dermal Toxicity	No specific data available. Expected low acute dermal toxicity based on oral data and chemical class.
Acute Inhalation Toxicity	No specific LC50 data available. Dust inhalation may cause respiratory irritation (basis for STOT SE 3, H335).
Skin Irritation	Causes skin irritation (Skin Irrit. 2, H315). Basis: classification in Section 2; confirmed by regulatory sources.
Eye Irritation	Causes serious eye irritation (Eye Irrit. 2, H319). Mechanical and chemical irritation from particulate and alkaline solution contact.
Sensitisation	Not classified as a skin or respiratory sensitiser. No data indicating sensitisation potential.
Carcinogenicity	Not listed as a carcinogen by IARC, NTP, OSHA, or EU CLP. Not classified.



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Mutagenicity	Not classified as a mutagen. No reliable data indicating genotoxic potential at relevant concentrations.
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SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	No aquatic hazard classification identified in Section 2 from reviewed data. Numeric acute/chronic ecotoxicity data not universally verified; avoid uncontrolled release to surface waters. Obtain supplier / ECHA ecotoxicity data if required for registration or export.
Persistence / Degradability	Hydrolyses in aqueous environments to orthophosphates; not expected to persist as hexametaphosphate. Orthophosphate end products are naturally occurring but may cause eutrophication at elevated concentrations.
Bioaccumulation	Not expected to bioaccumulate (inorganic salt; low log Kow). Verify with supplier BCF data where required.
Mobility in Soil	Soluble in water; may leach to groundwater. Assess adsorption potential for site-specific risk assessment. Prevent release to soil and groundwater.
Other Adverse Effects	Elevated phosphate concentrations may contribute to eutrophication in water bodies. Avoid uncontrolled release to the environment. Manage under applicable local environmental regulations.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste from Product	Dispose of contents through an authorised waste contractor in accordance with local, state and national regulations. Do not discharge to drain in large quantities.
Contaminated Packaging	Empty containers may retain residues. Handle as hazardous until cleaned or disposed of in accordance with applicable regulations.
Indian Regulations	Follow applicable Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016 and Central / State Pollution Control Board requirements. Assign waste code according to actual process and local regulation.



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SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	Not regulated	Not regulated	Not regulated
Proper Shipping Name	Not regulated	Not regulated	Not regulated
Class	Not regulated	Not regulated	Not regulated
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 at time of issue. Verify current carrier rules before shipment. Use approved, compatible packaging; label containers with product name and hazard warning per GHS Section 2.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Classified and labelled according to GHS/CLP classification listed in Section 2. Observe REACH registration/SVHC obligations where applicable. Substance listed on ECHA inventory.
OSHA (USA)	Prepared in OSHA HCS/HazCom 2012 (GHS-aligned) 16-section SDS format. Verify TSCA inventory status before US import or distribution.
India	Observe applicable Indian MSIHC Rules, Factories Act, Hazardous Waste Rules (2016), and Central/State Pollution Control Board requirements. Verify local OELs with competent authority.
Other Jurisdictions	Canada WHMIS 2015/HPR: classify and label using Section 2 classification; Canadian sale may require bilingual SDS/label and ingredient disclosure. China: apply GB/T SDS and classification requirements where marketed. Australia: verify AICS inventory status before import. GCC/Middle East: observe applicable GHS-aligned local requirements. Final market placement requires confirmation of local inventory, OELs, transport class, waste code and 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



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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 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