



SUPREME PETRO
CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
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SAFETY DATA SHEET (SDS)

STPP (Sodium
Tripolyphosphate) *SDS*

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

CAS 7758-29-4 EC 231-838-7 SIGNAL WORD DANGER

GHS07

Harmful / Irritant

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

Product Name	STPP (Sodium Tripolyphosphate)
Product Type	Sodium Tripolyphosphate — industrial chemical
Chemical Family	Inorganic polyphosphate salt
CAS No.	7758-29-4
EC No.	231-838-7
Intended Use	Industrial / professional use as described on the SPC product page. Used as a builder in detergents, water treatment, food processing, ceramics, and surface coatings.
Restrictions on Use	Industrial / professional use only. Confirm suitability for final application before 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/stpp
SDS Revision	July 2026
SDS Version	3.1



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SECTION 2 HAZARD IDENTIFICATION

Skin Irrit. 2; Eye Irrit. 2; STOT SE 3

GHS Classification	Skin Irritation Category 2; Eye Irritation Category 2; Specific Target Organ Toxicity — Single Exposure Category 3 (respiratory tract irritation)
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 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.
- P273 — Avoid release to the environment.
- P280 — Wear protective gloves / eye protection / face protection.

PRECAUTIONARY — RESPONSE / STORAGE / DISPOSAL

- P301+P312 — IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
- 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 Section 4).
- P330 — Rinse mouth.
- P332+P313 — If skin irritation occurs: Get medical advice / attention.



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- 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.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	EC NO.	% W/W	GHS CLASSIFICATION
Sodium Tripolyphosphate (STPP)	7758-29-4	231-838-1007	100	Skin Irrit. 2 (H315); Eye Irrit. 2 (H319); STOT SE 3 (H335)

Substance is supplied as a single-component product. Percentages are by weight. Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Remove person to fresh air. Keep at rest in a position comfortable for breathing. If respiratory irritation persists, seek medical attention.
Skin Contact	Remove contaminated clothing. Wash affected skin thoroughly with soap and water for at least 15 minutes. Seek medical attention if irritation persists.
Eye Contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention if irritation persists.
Ingestion	Rinse mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical advice. Never give anything by mouth to an unconscious person.
Note to Physician	Treat symptomatically. No specific antidote. Supportive care based on exposure route and clinical signs.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	STPP is an inorganic, non-combustible solid. Use extinguishing agent appropriate to surrounding fire (water, dry chemical, CO ₂ , foam).
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Unsuitable Media	High-pressure direct water jet where it may spread the material or create dust clouds.
Specific Hazards	Product itself is not flammable. In fire conditions it may decompose, emitting irritating phosphorus oxide fumes and sodium oxide vapours.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA). Do not rely on filtering face piece in fire conditions.
Special Procedures	Evacuate non-essential personnel. Prevent contaminated fire-fighting run-off from entering drains and waterways. Cool containers exposed to heat with water spray.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Isolate the area. Avoid generating and inhaling dust. Use PPE specified in Section 8 (gloves, dust mask / respirator, eye protection). Ensure adequate ventilation.
Environmental Precautions	Prevent entry into drains, sewers, surface water, soil and watercourses. STPP is a phosphate; excess release to waterways can contribute to eutrophication.
Containment / Clean-up	Sweep or vacuum up the spilled material carefully, avoiding dust generation. Collect in clearly labelled, compatible closed containers. Do not flush to drain with large volumes of water. Dispose via approved waste contractor.
Reference to Sections	See Section 8 for PPE, Section 13 for disposal, Section 15 for regulatory information.

SECTION 7 HANDLING AND STORAGE

Handling Precautions	Avoid generating dust. Use local exhaust ventilation if dust generation cannot be controlled. Avoid contact with skin and eyes. Avoid breathing dust.
Hygiene	Wash hands and exposed skin thoroughly after handling. Remove contaminated clothing before reuse. Do not eat, drink or smoke when using this product.
Storage Conditions	Store in original, tightly closed compatible containers (polyethylene-lined bags, drums) in a dry, cool, well-ventilated location. Protect from moisture; STPP is hygroscopic and will cake if exposed.



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Storage Temperature	Ambient temperature (recommended below 35°C). Keep away from direct sunlight and heat sources.
Incompatible Materials	Strong oxidising agents, concentrated acids (decomposition possible). Avoid contamination with moisture.
Segregation	Segregate from food, drink, animal feed, oxidising chemicals, and strong acids.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	STPP (CAS 7758-29-4): No specific OEL established by OSHA, NIOSH, ACGIH or EU SCOEL in widely available public sources. Apply ALARA / good industrial hygiene practice. Verify current regional OEL (India MSIHC, EU SCOEL, UK WEL) with supplier SDS before use.
Engineering Controls	Use local exhaust ventilation or enclosed handling systems where dust generation occurs. General dilution ventilation acceptable for low-dust operations. Provide eyewash station and safety shower in work area.
Respiratory Protection	Where dust is generated above the OEL or in the absence of an established OEL, use a NIOSH/EN149-approved P2/P95 or P100 particulate half-face or full-face respirator. Use SCBA for emergency or confined-space response.
Hand / Eye / Skin	Gloves: chemical-resistant nitrile, neoprene or PVC gloves. Eye/Face: chemical splash goggles (EN 166 / ANSI Z87.1); add face shield where dust or splash risk is elevated. Body: dust-resistant overalls or lab coat; safety footwear.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White crystalline powder or granules
Odour	Odourless
Odour Threshold	Not applicable (odourless solid)
pH	~9.5–10.0 (1% aqueous solution at 20°C); alkaline salt
Melting / Freezing Point	~622°C (STPP Form I; dehydrated anhydrous; peer-reviewed PubChem value)
Boiling Point / Range	Decomposes above ~620°C; no discrete boiling point (inorganic solid)
Flash Point	Not applicable — non-combustible inorganic solid



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Auto-ignition Temperature	Not applicable — non-combustible inorganic solid
Flammability Limits	Not applicable
Vapour Pressure	Negligible at ambient temperature (non-volatile solid)
Vapour Density (air = 1)	Not applicable (solid)
Relative Density	~2.52 g/cm ³ (anhydrous, literature value; verify grade with supplier COA)
Solubility in Water	Freely soluble (~15 g/100 mL at 25°C); solubility increases with temperature. Insoluble in ethanol.
Log Pow (Partition Coeff.)	Not applicable (highly water-soluble ionic salt; log Pow not meaningful)
Evaporation Rate	Not applicable (non-volatile solid)
Viscosity	Not applicable (solid)
VOC Content	0% (inorganic solid; not a VOC source)

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions. Anhydrous STPP may slowly absorb moisture and convert to the hexahydrate; keep containers sealed.
Conditions to Avoid	Moisture / humidity (hygroscopic caking), excessive heat above ~620°C (decomposition), contamination with incompatible materials.
Incompatible Materials	Strong oxidising agents (e.g. concentrated nitric acid, chlorine, permanganates, peroxides). Concentrated acids cause hydrolysis and release phosphoric acid. Reactive with aluminium chloride (AlCl ₃) under elevated temperature — not a concern in ambient blending or storage.
Hazardous Decomposition	Thermal decomposition above ~620°C yields sodium metaphosphate, phosphorus oxides (P ₂ O ₅) and sodium oxide (Na ₂ O) fumes — irritating to respiratory tract. Carbon oxides not expected (no carbon present).
Hazardous Reactions	No hazardous reactions under normal storage and handling conditions.



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SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	LD ₅₀ (rat, oral): ~3500 mg/kg (literature; low acute oral toxicity). Classified per Section 2 hazards.
Acute Dermal Toxicity	Not classified for acute dermal toxicity. Causes skin irritation (H315). Confirm numeric endpoint with supplier.
Acute Inhalation Toxicity	Not classified for acute inhalation lethality. Dust may cause respiratory tract irritation (H335 – STOT SE 3). Confirm numeric endpoint with supplier.
Skin Irritation	Classified: Skin Irrit. 2 (H315) – Causes skin irritation.
Eye Irritation	Classified: Eye Irrit. 2 (H319) – Causes serious eye irritation.
Sensitisation	Not classified as a skin or respiratory sensitiser based on reviewed data. Confirm with supplier SDS.
Carcinogenicity	Not classified. Not listed by IARC, NTP or OSHA as a carcinogen.
Mutagenicity	Not classified as a mutagen based on reviewed data. Confirm with supplier SDS.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	No acute aquatic classification identified in Section 2 from reviewed data. STPP is a phosphate salt; excess discharge to water bodies can contribute to eutrophication (nutrient enrichment). Obtain numeric ecotoxicity data (LC ₅₀ /EC ₅₀) from supplier if required for registration or export.
Persistence / Degradability	STPP hydrolyses in water to orthophosphate, which is a naturally occurring nutrient. Not persistent in the synthetic chemical sense; however elevated phosphate levels in aquatic systems are environmentally significant.
Bioaccumulation	Not expected to bioaccumulate (highly water-soluble ionic compound, log Pow not meaningful). Confirm BCF with supplier or ECHA data.
Mobility in Soil	Highly soluble in water; mobile in soil and groundwater systems. Adsorption potential is low. Prevent uncontrolled release to soil.
Other Adverse Effects	Avoid uncontrolled release to the environment. Manage releases and waste under applicable local environmental and water-quality regulations.



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SECTION 13 DISPOSAL CONSIDERATIONS

Waste from Product	Dispose of contents / residues through an authorised waste contractor in accordance with local, state and national regulations. Do not flush to drain in large quantities.
Contaminated Packaging	Empty containers may retain dust residues. Handle as potentially hazardous until cleaned or disposed of. Offer for recycling or dispose via licensed contractor.
Indian Regulations	Follow applicable Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016, CPCB / SPCB guidelines, and Water (Prevention and Control of Pollution) Act 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 regulated	Not regulated	Not regulated
Class	Not regulated	Not regulated	Not regulated
Packing Group	Not regulated	Not regulated	Not regulated
Marine Pollutant	No	No	N/A

STPP (CAS 7758-29-4) is not listed as a dangerous good under ADR, IMDG or IATA DGR based on reviewed public transport references. No UN number assigned. Verify current carrier rules and consult freight forwarder before international shipment. Ship in approved, tightly closed compatible containers (polyethylene-lined bags or drums).

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Classified and labelled in accordance with GHS/CLP as stated in Section 2. Observe REACH registration, downstream user and exposure scenario requirements where applicable. CAS 7758-29-4 is a pre-registered inorganic substance under REACH.
OSHA (USA)	Prepared in OSHA HCS / HazCom 2012 aligned 16-section SDS format. Verify TSCA inventory / SNUR status before US import or distribution.
India	Observe applicable Indian MSIHC Rules 1989, Factories Act 1948 (chemical handling), Environment Protection Act, Hazardous Waste Rules 2016, Water (Prevention and Control of Pollution) Act, and applicable state SPCB requirements.



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Other Jurisdictions	China: verify GB/T SDS and classification requirements where marketed. Canada: classify / label under WHMIS 2015 / HPR using Section 2 classification; bilingual SDS/label and ingredient disclosure may be required. 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 codes and restrictions.
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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 responsible for safe use, handling and compliance with all applicable laws and regulations.

FULL TEXT OF H-STATEMENTS

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