



SUPREME PETRO CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
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admin@supremepetrochemicals.com

SAFETY DATA SHEET (SDS)

Borax *SDS*

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

CAS **1303-96-4** EC **215-540-4** SIGNAL WORD **DANGER**

GHS07

Harmful / Irritant

GHS08

Health Hazard

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

Product Name	Borax
Product Type	Borax (Na ₂ B ₄ O ₇ ·10H ₂ O) — industrial chemical
Chemical Family	Inorganic borate salt (sodium tetraborate decahydrate)
CAS No.	1303-96-4
EC No.	215-540-4
Intended Use	Industrial / professional use as described on the SPC product page.
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/borax
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; Repr. 1B; Repr. 2; STOT RE 1; STOT RE 2

Signal Word DANGER

GHS Pictograms GHS07 (Harmful / Irritant) | GHS08 (Health Hazard)



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HAZARD STATEMENTS

- H315 — Causes skin irritation
- H319 — Causes serious eye irritation
- H335 — May cause respiratory irritation
- H360 — May damage fertility or the unborn child
- H361 — Suspected of damaging fertility or the unborn child
- H370 — Causes damage to organs (single exposure)
- H372 — Causes damage to organs through prolonged or repeated exposure
- H373 — May cause damage to organs through prolonged or repeated exposure

PRECAUTIONARY – PREVENTION

- P233 — Keep container tightly closed.
- P260 — Do not breathe dust / fumes / vapours.
- 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+P310 — IF SWALLOWED: Immediately call a POISON CENTER or doctor.
- P303+P361+P353 — IF ON SKIN OR HAIR: Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
- 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.
- P331 — Do NOT induce vomiting.
- P403+P235 — Store in a well-ventilated place. Keep cool.
- 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
Borax (sodium tetraborate decahydrate)	1303- 96-4	215- 540-4	100	Skin Irrit. 2 (H315); Eye Irrit. 2 (H319); STOT SE 3 (H335); Repr. 1B (H360); Repr. 2 (H361); STOT RE 1 (H372); STOT RE 2 (H373)

Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Remove person to fresh air immediately. Keep comfortable for breathing. If symptoms persist (coughing, irritation), seek medical advice.
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.
Ingestion	Rinse mouth with water. Do not induce vomiting unless directed by medical personnel. Call a POISON CENTER or doctor immediately.
Note to Physician	Treat symptomatically based on exposure route and product hazards. No specific antidote; supportive care.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Use extinguishing media appropriate to surrounding fire conditions (water spray, dry powder, CO ₂ , foam).
Unsuitable Media	Direct high-pressure water jet where it may spread material.
Specific Hazards	Borax is non-combustible. In a fire, may emit irritating boron oxide fumes. Containers may rupture when heated. Dust may form irritating atmospheres.
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 run-off from entering drains and watercourses.
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SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Isolate area. Keep unnecessary personnel away. Use PPE described in Section 8. Avoid breathing dust. Avoid contact with skin and eyes.
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses. Notify authorities if significant environmental release occurs.
Containment / Clean-up	Sweep or vacuum up carefully to avoid raising dust. Collect in labelled, compatible, closed containers for disposal. Do not flush to drain.
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 and breathing dust. Use adequate local exhaust ventilation. Avoid contact with skin, eyes and clothing. Prevent release to the environment.
Hygiene	Wash hands 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 in a cool, dry, well-ventilated area away from moisture. Inspect containers regularly for leakage or damage.
Storage Temperature	Ambient (15–25°C recommended). Avoid excessive heat and humidity.
Incompatible Materials	Strong oxidising agents (nitric acid, permanganates, peroxides). Concentrated acids. Aluminium chloride at elevated temperatures.
Segregation	Segregate from food, drink, animal feed and incompatible chemicals. Store locked up (reproductive toxicant).

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	Borax (CAS 1303–96–4): verify current national OEL with local authority (OSHA / NIOSH / ACGIH / EU / India). Apply ALARA / good
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industrial hygiene where no OEL is established. ACGIH TLV–TWA: 2 mg/m³ (inhalable fraction, as boron) — confirm applicability with supplier SDS.

Engineering Controls	Use closed handling systems and local exhaust ventilation to control dust. Ensure general dilution ventilation is sufficient. Provide eyewash stations and safety shower near work area.
Respiratory Protection	If dust levels exceed OEL or are unknown, use a NIOSH/EN–approved P95 or P100 particulate respirator. Use SCBA for emergency or high–exposure situations.
Hand / Eye / Skin	Gloves: chemical–resistant (nitrile, neoprene, or PVC). Eyes: EN 166 / ANSI Z87.1 chemical splash goggles. Body: chemical–resistant clothing or apron. Safety footwear. Hygiene: provide eyewash and safety shower; wash after handling.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White crystalline powder or granules
Odour	Odourless
Odour Threshold	Not applicable (odourless solid)
pH	~9.5 (aqueous solution, alkaline to litmus and phenolphthalein)
Melting / Freezing Point	~75°C (dehydration / decomposition of decahydrate; anhydrous form melts at ~743°C)
Boiling Point / Range	~1575°C (anhydrous sodium tetraborate; decomposes before boiling as decahydrate)
Flash Point	Not applicable — inorganic solid, non–flammable
Auto–ignition Temperature	Not applicable
Flammability Limits	Not applicable
Vapour Pressure	Approximately 0 mmHg at ambient temperature (involatile solid)
Vapour Density (air = 1)	Not applicable (solid)
Relative Density	1.73 g/cm ³ (at 20°C)
Solubility in Water	~51 g/L at 20°C; solubility increases significantly with temperature
Log Pow (Partition Coeff.)	Not applicable (inorganic salt)
Evaporation Rate	Not applicable (involatile solid)
Viscosity	Not applicable (solid)
VOC Content	Zero (inorganic solid)



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SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Avoid heat above 75°C (causes dehydration of decahydrate), excessive moisture, and contamination with incompatible materials.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Concentrated acids and halogens. Aluminium chloride (AlCl ₃) at elevated temperature.
Hazardous Decomposition	On heating: loss of water of crystallisation above ~75°C. At very high temperatures: boron oxide (B ₂ O ₃) and sodium oxide fumes. In fire: irritating boron-containing fumes.
Hazardous Reactions	No hazardous reactions under normal storage and handling conditions.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Rat LD ₅₀ (oral): ~4,500–6,000 mg/kg (low acute oral toxicity). Classified H303 (may be harmful if swallowed) in some classification schemes; confirm with supplier SDS.
Acute Dermal Toxicity	No significant acute dermal toxicity at normal exposure levels. See H315 skin irritation classification.
Acute Inhalation Toxicity	Dust inhalation may cause respiratory irritation (H335). No acute inhalation LC ₅₀ data confirmed for decahydrate dust.
Skin Irritation	Classified Skin Irrit. 2 — H315: Causes skin irritation.
Eye Irritation	Classified Eye Irrit. 2 — H319: Causes serious eye irritation.
Sensitisation	No evidence of skin or respiratory sensitisation reported.
Carcinogenicity	Not classified as a carcinogen by IARC, NTP, or OSHA.
Mutagenicity	Not classified as a mutagen. No significant mutagenicity data reported.
Reproductive Toxicity	Classified Repr. 1B (H360): May damage fertility or the unborn child. Classified Repr. 2 (H361): Suspected of damaging fertility or the unborn child. Avoid exposure especially for pregnant workers.
Specific Target Organ (Single)	STOT SE 3 (H370): Causes damage to organs (single exposure).
Specific Target Organ (Repeat)	STOT RE 1 (H372): Causes damage to organs through prolonged or repeated exposure. STOT RE 2 (H373): May cause damage to organs through prolonged or repeated exposure.



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SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	Borax has moderate aquatic toxicity. Acute LC ₅₀ (fish): reported values vary ~40–100 mg/L; verify with current ECHA/supplier ecotoxicity data. Avoid release to water bodies.
Persistence / Degradability	Inorganic salt; not subject to biodegradation. Boron is a naturally occurring element; environmental persistence depends on speciation and dilution.
Bioaccumulation	Bioaccumulation potential is low; log Kow not applicable for inorganic salt. BCF data not established.
Mobility in Soil	Soluble in water; mobile in soil and groundwater. Prevent release to soil and groundwater.
Other Adverse Effects	Avoid uncontrolled release to the environment. Boron at elevated concentrations may be phytotoxic. Manage releases under applicable environmental regulations.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste from Product	Dispose of contents through an authorized waste contractor in accordance with local/national hazardous waste regulations. Do not flush to drain or discharge to environment.
Contaminated Packaging	Empty containers may retain residues; handle as potentially hazardous until cleaned or disposed. Return to supplier or dispose via approved contractor.
Indian Regulations	Follow applicable Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, 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 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



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Borax (sodium tetraborate decahydrate, CAS 1303–96–4) is not listed as a dangerous good under ADR, IMDG, or IATA DGR in standard reference data. Verify current carrier tariff rules and consult supplier/freight forwarder before each shipment as regulations may change. Use approved compatible packaging (e.g. sealed polyethylene bags in fibreboard or UN-certified drums) labelled with product name and hazard classification per GHS/CLP.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Classified and labelled under GHS/CLP as per Section 2 classification. Subject to REACH Registration requirements for import/manufacture above threshold tonnages. Consult current ECHA C&L Inventory for harmonised classification.
OSHA (USA)	Prepared in OSHA HCS / HazCom 2012-aligned 16-section SDS format. Verify TSCA inventory status before US import or distribution.
India	Observe applicable Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 (amended); Hazardous and Other Wastes Rules, 2016; and State Pollution Control Board requirements.
Canada (WHMIS)	Classify and label under WHMIS 2015 / HPR using Section 2 classification. Canadian sale may require bilingual SDS/label and ingredient disclosure to regulatory authority.
Other Jurisdictions	Check applicable GB/T standards (China), GCC/GHS local requirements, and inventory status before export. Final market placement requires confirmation of local OELs, transport class, waste codes, and restrictions. Australia: check AICS inventory status.

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.

FULL TEXT OF H-STATEMENTS

- H315 — Causes skin irritation



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- H335 — May cause respiratory irritation
-
- H360 — May damage fertility or the unborn child
-
- H361 — Suspected of damaging fertility or the unborn child
-
- H370 — Causes damage to organs (single exposure; specify route of exposure and organ affected if known)
-
- H372 — Causes damage to organs through prolonged or repeated exposure
-
- H373 — May cause damage to organs through prolonged or repeated exposure
-