



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)

Sulphuric Acid *SDS*

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

CAS 7664-93-9 EC 231-639-5 SIGNAL WORD DANGER

GHS05 Corrosive	GHS06 Acute Toxicity	GHS08 Health Hazard	GHS09 Environmental Hazard
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SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

Product Name	Sulphuric Acid
Product Type	Sulfuric Acid — corrosive / irritant chemical
Chemical Family	Inorganic Acid
CAS No.	7664-93-9
EC No.	231-639-5
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/sulphuric-acid
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

Met. Corr. 1; Skin Corr. 1; Eye Dam. 1; Acute Tox. 2 (Inhalation); STOT RE 1; Aquatic Chronic 1



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GHS Classification	Met. Corr. 1; Skin Corr. 1; Eye Dam. 1; Acute Tox. 2 (Inhalation); STOT RE 1; Aquatic Chronic 1
Signal Word	DANGER
GHS Pictograms	GHS05 (Corrosive) GHS06 (Acute Toxicity) GHS08 (Health Hazard) GHS09 (Environmental Hazard)

HAZARD STATEMENTS

- H290 — May be corrosive to metals
- H314 — Causes severe skin burns and eye damage
- H318 — Causes serious eye damage
- H330 — Fatal if inhaled
- H372 — Causes damage to organs through prolonged or repeated exposure
- H410 — Very toxic to aquatic life with long lasting effects

PRECAUTIONARY — PREVENTION

- P260 — Do not breathe vapours, mist or spray.
- P271 — Use only outdoors or in a well-ventilated area.
- P273 — Avoid release to the environment.
- P280 — Wear protective gloves / protective clothing / eye protection / face protection.

PRECAUTIONARY — RESPONSE / STORAGE / DISPOSAL

- P301+P330+P331 — IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303+P361+P353 — IF ON SKIN OR HAIR: Take off immediately all contaminated clothing. Rinse skin with water or 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.
- P310 — Immediately call a POISON CENTER or doctor.
- P363 — Wash contaminated clothing before reuse.
- P391 — Collect spillage.
- 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
Sulphuric Acid	7664-93-9	231-639-5	~98 (concentrated grade)	Met. Corr. 1 (H290); Skin Corr. 1A (H314); Eye Dam. 1 (H318); Acute Tox. 2 – Inhalation (H330); STOT RE 1 (H372); Aquatic Chronic 1 (H410)

Concentration may vary by grade (93–98%). Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Immediately remove person to fresh air. If breathing is difficult, administer oxygen. Keep warm and at rest. Seek immediate medical attention. Call a POISON CENTER or doctor.
Skin Contact	Remove contaminated clothing immediately. Flush affected skin with large amounts of water for at least 20 minutes. Seek immediate medical attention. Wash clothing before reuse.
Eye Contact	Rinse cautiously with water for at least 15–20 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek immediate medical attention – risk of irreversible eye damage.
Ingestion	Rinse mouth with water. Do NOT induce vomiting (risk of re-burn). Do not give anything by mouth to an unconscious person. Immediately call a POISON CENTER or doctor.
Note to Physician	Treat symptomatically. Corrosive burns require specialist assessment. Inhalation of mists can cause severe pulmonary oedema; delayed onset possible.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Sulphuric acid is not flammable. Use extinguishing agent appropriate for surrounding fire (dry sand, dry chemical, CO ₂ , water spray). Do not use water jet directly on acid.
Unsuitable Media	Direct high-pressure water jet – may disperse acid and cause violent spattering.
Specific Hazards	Contact with combustible materials may cause fire. Reacts violently with water generating intense heat. Thermal decomposition



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generates sulphur dioxide (SO₂) and sulphur trioxide (SO₃) – toxic and corrosive.

Protective Equipment

Wear full chemical-resistant protective clothing, face shield, and self-contained breathing apparatus (SCBA). Do not rely on air-purifying respirators alone.

Special Procedures

Evacuate non-essential personnel. Cool containers exposed to heat with water spray from a safe distance. Prevent fire-fighting water contaminated with acid from entering drains and waterways. Contain run-off.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions

Isolate the area. Evacuate non-essential personnel. Wear appropriate PPE (see Section 8) including chemical-resistant clothing, gloves, eye protection and respiratory protection. Do not walk through spilled material.

Environmental Precautions

Prevent entry into drains, sewers, soil, surface water and groundwater. Neutralise spill (with caution) before run-off reaches waterways. Report releases to relevant environmental authority if required.

Containment / Clean-up

Contain spill with sand, earth or inert absorbent material. Carefully neutralise small spills with dilute sodium carbonate or lime, checking temperature carefully – do NOT add water directly to concentrated acid. Transfer material into labelled, compatible containers for disposal by an 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

Use only in a well-ventilated area or under local exhaust ventilation. Avoid breathing vapours or mist. Avoid contact with skin, eyes and clothing. Use grounded/bonded containers. Handle in acid-resistant equipment only. Always add acid to water – never the reverse.

Hygiene

Wash hands, forearms and face thoroughly after handling. Remove contaminated clothing before re-entry to eating areas. Do not eat, drink or smoke when using this product.



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Storage Conditions	Store in original, tightly closed, acid-resistant containers (glass, HDPE, or lined steel). Store separately from incompatible materials. Keep containers upright and labelled.
Storage Temperature	Ambient temperature (10–35 °C recommended). Avoid freezing (freezing point ~10 °C for 98% grade) and excessive heat.
Incompatible Materials	Reactive metals (zinc, aluminium, iron), strong bases, oxidising agents, organic materials, water (exothermic), nitrates, chlorates, carbides, powdered metals. See Section 10.
Segregation	Segregate from food, drink, animal feed, bases, oxidisers and incompatible chemicals. Store in a dedicated acid store.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	H2SO4 (thoracic fraction): OSHA PEL 1 mg/m ³ (8h TWA); NIOSH REL 1 mg/m ³ (10h TWA), IDLH 15 mg/m ³ ; ACGIH TLV 0.2 mg/m ³ (thoracic, 8h TWA); UK WEL 0.05 mg/m ³ (8h TWA), 0.1 mg/m ³ (15 min STEL). Confirm India ICMR/CPCB OEL with local authority.
Engineering Controls	Use closed process handling or local exhaust ventilation (LEV) to maintain airborne concentrations below OEL. Provide emergency eyewash stations and safety showers within 10 seconds of the work area.
Respiratory Protection	Where ventilation is insufficient: use a NIOSH/EN-approved acid gas respirator (cartridge type for mists) or SCBA for emergencies, high concentrations or confined spaces. Fit-test required.
Hand / Eye / Skin	Gloves: chemical-resistant (butyl rubber, neoprene or laminate ≥0.5 mm); check breakthrough time. Eye/Face: splash-proof chemical goggles plus full face shield. Body: acid-resistant apron, chemical-resistant boots. Remove and decontaminate PPE before leaving work area.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colourless to slightly yellow, oily liquid (concentrated grade). Spent/diluted grade may appear dark brown to black.
Odour	Odourless (concentrated); pungent, choking odour at elevated temperatures or when fuming.
Odour Threshold	Not established.



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pH	< 1 (1% aqueous solution); effectively 0 for concentrated grade.
Melting / Freezing Point	~10.3 °C (50.5 °F) for 98% grade (EPA/NIOSH data: 50.65 °F)
Boiling Point / Range	~290–337 °C at 760 mmHg (varies with concentration; EPA: 554 °F / 290 °C for concentrated grade)
Flash Point	Not flammable (USCG). Not applicable.
Auto-ignition Temperature	Not applicable — substance is not flammable.
Flammability Limits	Not applicable.
Vapour Pressure	~0.001 mmHg at 20 °C (NIOSH); 1 mmHg at ~146 °C (EPA: 294.8 °F)
Vapour Density (air = 1)	3.4 (EPA) — heavier than air; vapours will sink and accumulate in low areas.
Relative Density	~1.84 g/cm ³ at 20 °C (98% grade); source indicates ~1.80 g/cm ³ (15 lb/gal). Verify grade-specific value with supplier COA.
Solubility in Water	Miscible in all proportions; dissolves with evolution of much heat. Also miscible with ethanol.
Log Pow (Partition Coeff.)	Not applicable (ionic inorganic acid).
Evaporation Rate	Very low (relative to butyl acetate).
Viscosity	~21 mPa·s at 25 °C (peer-reviewed value for 98% grade).
VOC Content	Nil / not applicable. Assess per applicable regional VOC regulations if formulated.

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under normal storage and handling conditions.
Conditions to Avoid	Avoid heat above 150 °C, contact with incompatible materials, contamination with organic matter, moisture ingress into anhydrous grades, and freezing of concentrated grades.
Incompatible Materials	Reactive metals (aluminium, zinc, iron — generates hydrogen gas); strong bases (violent exotherm); oxidising agents (chlorates, nitrates, permanganates, peroxides); organic materials (combustion risk); water (violent exotherm if water added to concentrated acid); carbides; powdered metals.
Hazardous Decomposition	Thermal decomposition above ~340 °C yields sulphur dioxide (SO ₂) and sulphur trioxide (SO ₃). In fire: same toxic/corrosive gases.
Hazardous Reactions	Reacts violently with water (always add acid to water — never reverse). Reacts with metals to generate flammable hydrogen gas. Reacts with bases (neutralisation, intense exotherm). Contact with organic materials may cause fire or explosion.



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SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Highly corrosive to the mouth, throat, oesophagus and stomach. Classified Acute Tox. (see Section 2). Rat oral LD ₅₀ : 2,140 mg/kg (PubChem/OECD). Consult supplier SDS for grade-specific data.
Acute Dermal Toxicity	Causes severe, potentially deep chemical burns. Rat dermal LD ₅₀ data: see supplier SDS. High concentration contact can be rapidly fatal.
Acute Inhalation Toxicity	Classified Acute Tox. 2 (Inhalation) — H330 Fatal if inhaled. Mists and aerosols severely irritate and damage the respiratory tract. Rat LC ₅₀ (1h): 510 mg/m ³ (NIOSH). Delayed onset pulmonary oedema is possible.
Skin Irritation	Classified Skin Corr. 1A (H314). Causes severe, irreversible burns on contact. See Section 4.
Eye Irritation	Classified Eye Dam. 1 (H318). Causes serious irreversible eye damage on contact. See Section 4.
Sensitisation	Not classified as a skin or respiratory sensitiser.
Carcinogenicity	IARC Group 1: Occupational exposure to strong inorganic acid mists containing sulphuric acid is carcinogenic to humans (larynx, lung). ACGIH A2 (suspected human carcinogen — mist). Not classified under GHS for carcinogenicity at product level. Minimise mist exposure.
Mutagenicity	Not classified as mutagenic under GHS. No significant mutagenic activity reported in standard tests.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	Classified Aquatic Chronic 1 (H410) — Very toxic to aquatic life with long lasting effects. H ₂ SO ₄ lowers pH of receiving waters, toxic to aquatic organisms. Fish LC ₅₀ (96h): 42 mg/L (Lepomis macrochirus). Prevent any release to water.
Persistence / Degradability	Inorganic acid; concept of biodegradability does not directly apply. Dissociates in water to H ⁺ and SO ₄ ²⁻ . Sulphate ions are persistent in the environment but biogeochemically cycled.
Bioaccumulation	Not expected to bioaccumulate (log Kow not applicable for ionic species; BCF negligible).



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Mobility in Soil	Highly mobile in soil and groundwater due to miscibility with water. Acidifies soil and can mobilise heavy metals. Prevent any release to soil.
Other Adverse Effects	Avoid uncontrolled release to environment. Acidification of water bodies is a significant environmental hazard. Manage releases and waste under applicable environmental regulations.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste from Product	Neutralise carefully before disposal (add acid slowly to excess dilute base or lime slurry, with cooling). Dispose of neutralised material or waste acid through an authorised hazardous waste contractor in accordance with local, state and national regulations.
Contaminated Packaging	Empty containers may retain hazardous acid residues. Do not reuse for food, drink or pharmaceutical purposes. Triple-rinse acid-resistant containers; dispose of rinse water appropriately. Dispose of containers through an authorised hazardous waste contractor.
Indian Regulations	Classified as hazardous waste under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 (Ministry of Environment, Forest and Climate Change). Comply with CPCB / State PCB requirements for storage, transport and disposal. EWC code equivalent: consult State PCB.

SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	UN 1830	UN 1830	UN 1830
Proper Shipping Name	SULPHURIC ACID, with more than 51% acid	SULPHURIC ACID, with more than 51% acid	SULPHURIC ACID, with more than 51% acid
Class	8 (Corrosive)	8 (Corrosive)	8 (Corrosive)
Packing Group	II	II	II
Marine Pollutant	Yes (verify with IMDG supplement)	Yes	N/A
Tunnel Restriction E (ADR)	—	—	—
EmS (Sea)	—	F-A, S-B	—

UN 1830 applies to sulphuric acid with >51% acid. For ≤51% use UN 2796 (PG III). Use UN-approved, acid-resistant packaging. Label with Class 8 placard, UN number, PG II. Verify current ADR/IMDG/IATA editions before shipment. Indian transport: comply with



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CMVR/MSIHC Rules.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Sulphuric acid is a SVHC candidate substance. Registered under REACH. Classified and labelled per EU CLP Regulation (EC) No 1272/2008 — Annex VI harmonised classification: Skin Corr. 1A (H314), Met. Corr. 1 (H290). Additional classifications per supplier SDS.
OSHA (USA)	Hazardous substance under OSHA HCS (29 CFR 1910.1200). This SDS is prepared in OSHA HazCom 2012 (GHS-aligned) 16-section format. Listed on SARA 313 (reportable chemical).
India	Regulated under: Manufacture, Storage and Import of Hazardous Chemical (MSIHC) Rules 1989 (as amended); Environment Protection Act 1986; Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016; Factories Act 1948 (Schedule IV notifiable disease — chronic acid exposure). Comply with CPCB / State PCB requirements.
Other Jurisdictions	Canada WHMIS 2015/HPR: classify and label per Section 2; bilingual SDS required for Canadian sale. Australia AICS: verify inventory listing before import/export. China (GB/T): comply with GB/T 16483 SDS format and GB 30000 classification where applicable. Regulatory scope: confirm inventory status, local OELs, waste codes and transport restrictions in each target market.

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

- H290 — May be corrosive to metals



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- H318 — Causes serious eye damage
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- H330 — Fatal if inhaled
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- H372 — Causes damage to organs through prolonged or repeated exposure (inhalation — respiratory system)
-
- H410 — Very toxic to aquatic life with long lasting effects
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