



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)

Oxalic Acid *SDS*

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

CAS 144-62-7 EC 205-634-3 SIGNAL WORD **DANGER**

GHS05

Corrosive

GHS07

Harmful / Irritant

GHS08

Health Hazard

GHS09

Environmental
Hazard

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

Product Name	Oxalic Acid
Product Type	Oxalic Acid — corrosive / irritant chemical
Chemical Family	Dicarboxylic Acid
CAS No.	144-62-7
EC No.	205-634-3
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/oxalic-acid
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

Acute Tox. 4 (oral); Acute Tox. 4 (dermal); Skin Irrit. 2; Eye Dam. 1; STOT SE 3 (respiratory); Repr. 2; STOT RE 1; Aquatic Chronic 3

Signal Word DANGER



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

GHS Pictograms

GHS05 (Corrosive) | GHS07 (Harmful / Irritant) | GHS08 (Health Hazard) | GHS09 (Environmental Hazard)

HAZARD STATEMENTS

- H302 — Harmful if swallowed
- H312 — Harmful in contact with skin
- H315 — Causes skin irritation
- H318 — Causes serious eye damage
- H335 — May cause respiratory irritation
- H361 — Suspected of damaging fertility or the unborn child
- H370 — Causes damage to organs (kidney, nervous system) through single exposure
- H372 — Causes damage to organs through prolonged or repeated exposure
- H412 — Harmful to aquatic life with long lasting effects

PRECAUTIONARY — PREVENTION

- P260 — Do not breathe dust / vapours.
- P264 — Wash hands and exposed skin thoroughly after handling.
- P270 — Do not eat, drink or smoke when using this product.
- 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.
- P201 — Obtain special instructions before use (reproductive / STOT hazard).
- P202 — Do not handle until all safety precautions have been read and understood.

PRECAUTIONARY — RESPONSE / STORAGE / DISPOSAL

- P301+P312 — IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
- P301+P330+P331 — IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- 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.



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

- P310 — Immediately call a POISON CENTER or doctor (eye damage).
- P312 — Call a POISON CENTER or doctor if you feel unwell.
- P314 — Get medical advice / attention if you feel unwell (STOT RE).
- P330 — Rinse mouth.
- P333+P313 — If skin irritation or rash occurs: Get medical advice / attention.
- P391 — Collect spillage.
- 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
Oxalic Acid (anhydrous or dihydrate)	144–62–7	205–634–3	≥99 (anhydrous basis; confirm grade with supplier COA)	Acute Tox. 4 (oral/dermal); Skin Irrit. 2; Eye Dam. 1; STOT SE 3; Repr. 2; STOT RE 1; Aquatic Chronic 3

Full text of H-statements listed in Section 16. EC No. from ECHA EINECS.

SECTION 4 FIRST AID MEASURES

Inhalation	Remove person to fresh air immediately. Keep at rest in a position comfortable for breathing. If symptoms persist (coughing, chest tightness, respiratory irritation), seek medical attention. Administer oxygen if breathing is difficult.
Skin Contact	Remove contaminated clothing immediately. Wash affected skin thoroughly with soap and water for at least 15 minutes. Seek medical attention if irritation, redness or pain develops or persists.
Eye Contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do — continue rinsing. Seek immediate medical attention; oxalic acid causes serious eye damage (H318).
Ingestion	Rinse mouth immediately with water. Do NOT induce vomiting. Give water or milk to dilute if conscious. Call a POISON CENTER or doctor immediately. Oxalic acid is harmful if swallowed and can cause renal damage.



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

Note to Physician

Oxalic acid may cause hypocalcaemia (calcium oxalate precipitation) and renal tubular damage. Consider calcium gluconate administration (IV) for significant ingestion. Monitor renal function, serum calcium, and ECG. Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media

Water spray, dry chemical powder, CO₂, sand or earth. Use media appropriate for surrounding fire.

Unsuitable Media

Avoid high-pressure water jet directed at bulk material — may disperse dust or spread contaminated water.

Specific Hazards

Oxalic acid is a combustible solid. Decomposes at ~189°C producing carbon monoxide (CO), carbon dioxide (CO₂), and irritating/toxic fumes. Dust may form combustible or irritating atmospheres. Containers may rupture when heated.

Protective Equipment

Wear full protective clothing and self-contained breathing apparatus (SCBA / EN 136 or NIOSH-approved). Prevent contaminated firefighting run-off from entering drains and watercourses.

Special Procedures

Evacuate non-essential personnel. Cool containers with water spray from a safe distance. Collect contaminated run-off for proper disposal. Notify environmental authorities if significant release to waterways occurs.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions

Isolate the area. Keep non-essential personnel away. Wear full PPE as specified in Section 8 (gloves, eye/face protection, dust respirator, chemical-resistant clothing). Avoid generating dust. Ensure adequate ventilation.

Environmental Precautions

Prevent entry into drains, sewers, soil, and watercourses. Oxalic acid is classified as Aquatic Chronic 3 (H412). Notify authorities if significant environmental release occurs.

Containment / Clean-up

For dry/powder spill: sweep or vacuum using explosion-proof equipment. Avoid generating dust. Collect into labelled, compatible closed containers for disposal. For dissolved spill: absorb with inert material (sand, vermiculite, earth). Do not use sawdust — risk of dust explosion when wet.



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

Reference to Sections	See Section 8 for PPE details, Section 13 for disposal requirements, and Section 15 for regulatory information.
------------------------------	---

SECTION 7 HANDLING AND STORAGE

Handling Precautions	Use adequate local exhaust ventilation to control dust. Avoid generating dust. Avoid contact with eyes, skin, and clothing. Do not inhale dust. Use only with adequate ventilation or appropriate respiratory protection.
Hygiene	Wash hands and exposed skin thoroughly after handling. Remove and wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Eyewash stations and safety showers must be readily accessible.
Storage Conditions	Store in original, tightly closed compatible containers (polyethylene, glass, or stainless steel). Inspect containers regularly for leakage or damage. Store away from food, drink, and animal feed.
Storage Temperature	Ambient temperature (15–30°C). Keep cool and dry. Protect from heat and direct sunlight.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides), strong bases, reactive metals, silver, mercury compounds, concentrated acids, halogens. See Section 10.
Segregation	Segregate from oxidising agents, food products, and incompatible chemicals. Store in a dedicated chemical store. Do not store with foodstuffs or animal feed.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	Oxalic Acid (CAS 144–62–7): ACGIH TLV–TWA 1 mg/m ³ ; OSHA PEL–TWA 1 mg/m ³ ; UK WEL TWA 1 mg/m ³ / STEL 2 mg/m ³ . Indian OEL: verify current CPCB/MoLEM schedule; apply ALARA / good industrial hygiene where national OEL not established.
Engineering Controls	Use closed handling systems or local exhaust ventilation (LEV) to control dust and maintain concentrations below OEL. General dilution ventilation may be adequate for small quantities. Provide eyewash stations and emergency safety showers where eye or body contact is possible.
Respiratory Protection	Where dust concentrations may exceed OEL: use a NIOSH/EN 149 approved half–face respirator with P95/P100 (NIOSH) or FFP2/FFP3



(EN) particulate filter. Use SCBA for emergency response or if concentrations are unknown.

Hand / Eye / Skin

Hands: chemical-resistant gloves — nitrile (≥ 0.3 mm), neoprene, or PVC; verify breakthrough time. Eyes/Face: chemical splash goggles (EN 166 / ANSI Z87.1); add full face shield for dusty or bulk-transfer operations. Body: chemical-resistant apron or coverall and safety footwear. Hygiene: provide eyewash and emergency shower; wash after handling.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White crystalline solid (colourless crystals or white powder). Commercial grade commonly supplied as dihydrate.
Odour	Odorless
Odour Threshold	Not established
pH	Acidic in aqueous solution (pH ~1.3 for 1% solution at 25°C). Not applicable as supplied solid.
Melting / Freezing Point	~101–102°C (dihydrate loses water; anhydrous melting point ~189–190°C) — confirm grade with supplier
Boiling Point / Range	Not applicable — oxalic acid sublimates and decomposes before boiling; sublimation begins ~150°C; decomposition at ~189.5°C
Flash Point	Not applicable — solid; not classified as flammable. No flash point by standard test methods.
Auto-ignition Temperature	~290°C (approximate; solid combustible — verify with supplier for specific grade)
Flammability Limits	Not applicable (solid). Dust may form combustible atmosphere at elevated concentrations — consult dust explosion data from supplier.
Vapour Pressure	Very low (negligible) at ambient temperature; solid at room temperature
Vapour Density (air = 1)	~4.3 (dihydrate, MW ~126 g/mol; anhydrous ~3.1) — significant only above sublimation temperature
Relative Density	1.90 g/cm ³ at 17°C (anhydrous α -form); dihydrate ~1.65 g/cm ³ — confirm grade with supplier
Solubility in Water	~8.34 g per 100 g water at 20°C (saturation); ~6.71 g per 100 g at 15°C. Solubility increases with temperature. Freely soluble in hot water.



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

Log Pow (Partition Coeff.)	-0.81 (measured; hydrophilic — low bioaccumulation potential)
Evaporation Rate	Not applicable (solid)
Viscosity	Not applicable (solid)
VOC Content	Zero — inorganic-equivalent solid acid; not a VOC under standard regulatory definitions. Assess per applicable regional VOC regulations if dissolved in solvent.

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions (cool, dry, sealed container at ambient temperature).
Conditions to Avoid	Heat above 101°C (dehydration of dihydrate) or above 189°C (decomposition). Moisture ingress into bulk storage. Incompatible materials (see below). Dust generation near ignition sources.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides), strong bases (NaOH, KOH), reactive metals (sodium, potassium), silver and mercury compounds, concentrated mineral acids, halogens. Reactive with aluminium chloride (AlCl ₃) under elevated temperature — not a concern in ambient storage.
Hazardous Decomposition	Thermal decomposition above ~189°C yields carbon monoxide (CO), carbon dioxide (CO ₂), and water. In fire conditions, irritating and toxic fumes may form.
Hazardous Reactions	No hazardous polymerisation. No dangerous self-reaction under normal storage and handling conditions when incompatibles are excluded.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Acute Tox. 4 (H302). Rat LD ₅₀ (oral): ~375 mg/kg (ECHA). Harmful if swallowed. Causes renal tubular damage; may cause hypocalcaemia.
Acute Dermal Toxicity	Acute Tox. 4 (H312). Rabbit LD ₅₀ (dermal): ~20,000 mg/kg (approximate). Harmful in contact with skin; causes skin irritation (H315).
Acute Inhalation Toxicity	STOT SE 3 (H335). May cause respiratory irritation from dust or vapour. Quantitative LC ₅₀ not established for dust — confirm with supplier.



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

Skin Irritation	Skin Irrit. 2 (H315). Causes skin irritation. Repeated or prolonged contact may cause dermatitis.
Eye Irritation	Eye Dam. 1 (H318). Causes serious eye damage. Immediate and thorough irrigation required.
Sensitisation	Not classified as a skin or respiratory sensitiser based on available data.
Carcinogenicity	Not classified as a carcinogen by IARC, NTP, ACGIH, or EU CLP.
Mutagenicity	Not classified as a mutagen. No evidence of genotoxicity in standard assays.
Reproductive Toxicity	Repr. 2 (H361). Suspected of damaging fertility or the unborn child. Mechanistic basis: calcium chelation and systemic toxicity at high doses. Minimise occupational exposure in pregnancy.
STOT — Single Exposure	STOT SE 3 (H370). Single exposure may cause damage to kidneys and nervous system at high doses.
STOT — Repeated Exposure	STOT RE 1 (H372). Causes damage to kidneys through prolonged or repeated exposure. Use exposure controls and medical surveillance as required.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	Aquatic Chronic 3 (H412). Harmful to aquatic life with long lasting effects. Acute LC ₅₀ /EC ₅₀ values vary by species — obtain specific data from ECHA, PubChem, or supplier SDS where required for risk assessment.
Persistence / Degradability	Oxalic acid is readily biodegradable under aerobic conditions. However, classified Aquatic Chronic 3 — do not assume environmental safety without site-specific assessment.
Bioaccumulation	Low bioaccumulation potential (Log Pow = -0.81). Not expected to bioaccumulate in aquatic organisms.
Mobility in Soil	Highly water-soluble; mobile in soil and groundwater. Potential to reach aquatic environments if released. Prevent uncontrolled release.
Other Adverse Effects	Avoid uncontrolled release to the environment. Manage waste and spillages under applicable environmental regulations (see Section 13 and 15).



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

SECTION 13 DISPOSAL CONSIDERATIONS

Waste from Product	Dispose of contents through an authorised waste contractor in accordance with local/national regulations. Do not discharge to drains or watercourses without treatment. In India: manage under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
Contaminated Packaging	Empty containers may retain residues and must be handled as potentially hazardous. Triple-rinse with water, then dispose or return to supplier. Rinsate should be treated as contaminated waste.
Indian Regulations	Follow CPCB / State Pollution Control Board requirements for hazardous waste disposal. Assign waste category per Schedule I/II of HW (M&TM) Rules 2016. Maintain waste disposal records as required.

SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	Not regulated (solid, non-hazardous DG at normal purity/packaging)	Not regulated	Not regulated
Proper Shipping Name	Not applicable	Not applicable	Not applicable
Class	Not regulated	Not regulated	Not regulated
Packing Group	Not applicable	Not applicable	Not applicable
Marine Pollutant	N/A	No (verify grade)	N/A

Oxalic acid (anhydrous or dihydrate, CAS 144-62-7) is not listed as a dangerous good under ADR 2023, IMDG Code 2022/41st Edition, or IATA DGR 2024 at standard commercial grades and packaging. DG status must be verified by the shipper against current regulations and actual grade/concentration before each shipment. UN-certified packaging required for international transport. Do not ship as 'not regulated' without formal carrier/regulatory confirmation.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Registered under REACH (EC No. 205-634-3). Classified and labelled under EU CLP Regulation (EC) No. 1272/2008 consistent with
------------------	---



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

	GHS classification in Section 2. Observe applicable REACH requirements for supply chain (SDS, exposure scenarios).
OSHA (USA)	Prepared in OSHA HCS 2012 / HazCom aligned 16-section SDS format. Listed on TSCA inventory — verify current SNUR/inventory status before US import or distribution.
India	Observe applicable requirements under: Manufacture, Storage and Import of Hazardous Chemical (MSIHC) Rules 1989 (amended); Hazardous and Other Wastes (M&TM) Rules 2016; Environment (Protection) Act 1986; Factories Act 1948 (chemical safety); Insecticides Act (if applicable). GST-classified chemical — commercial invoices must reflect applicable HSN code.
Canada — WHMIS / HPR	Classify and label under WHMIS 2015 / Hazardous Products Regulations (HPR) using Section 2 classification. Canadian sale requires bilingual (EN/FR) SDS and label; ingredient disclosure under WHMIS HPR Schedule 2.
China (GB Standards)	Use applicable GB/T SDS and GHS-aligned classification requirements where marketed in China.
Australia (AICS)	Oxalic acid is listed on the Australian Inventory of Chemical Substances (AICS). Check current AICIS assessment and safe work requirements before import.
Middle East / GCC	Observe applicable GHS-aligned local requirements of the relevant GCC member state.
Other Jurisdictions	Final market placement requires confirmation of local inventory status, OELs, transport classification, waste code and restrictions. Regulatory scope limitation: this SDS does not constitute legal compliance advice for all jurisdictions.

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)
Key Sources	SPC product page; UN GHS Rev.11 Annex 4; OSHA HCS Appendix D; EU CLP/REACH Annex II; ECHA substance dossier CAS 144-62-7; NIOSH Pocket Guide (2024); PubChem CID 971; NTP (1992); USCG (1999); Canada WHMIS/HPR. Accessed June 2026.



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

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

- H302 — Harmful if swallowed
- H312 — Harmful in contact with skin
- H315 — Causes skin irritation
- H318 — Causes serious eye damage
- H335 — May cause respiratory irritation
- H361 — Suspected of damaging fertility or the unborn child
- H370 — Causes damage to organs (kidney, nervous system) through single exposure at high doses
- H372 — Causes damage to organs (kidney) through prolonged or repeated exposure
- H412 — Harmful to aquatic life with long lasting effects