

**SAFETY DATA SHEET (SDS)****Rev 1.0**

Prepared: May 2026

GHS compliant | Rev 1.0 | Prepared: May 2026

GHS07
Harmful / Irritant**SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY**

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| Product Name | Citric Acid Anhydrous |
| Product Type | Citric Acid - industrial chemical |
| Chemical Family | Citric Acid |
| CAS No. (Citric Acid Anhydrous) | 77-92-9 |
| CAS No. (Other Component) | N/A |
| 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. |
| Manufacturer / Supplier | Supreme Petro Chemicals |
| Address | Periyamet, Chennai - 600 003, Tamil Nadu, India |
| Emergency Contact | Sudarshan - 8197947045; Sanketh - 8608780096 |
| Email | admin@supremepetrochemicals.com |
| SDS Revision Date | May 2026 |
| SDS Version | 1.0 |
| Product Page URL | https://www.supremepetrochemicals.com/products/citric-acid-anhydrous |

SECTION 2 HAZARD IDENTIFICATION

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| Skin Irrit. 2; Eye Irrit. 2; STOT SE 3 | |
| H319 | H319: Causes serious eye irritation |
| H335 | H335: May cause respiratory irritation |
| H315 | H315: Causes skin irritation |
| Other GHS hazard classes | Not classified for unlisted hazard classes based on reviewed source data. |
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| Signal Word | WARNING |
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| GHS Pictograms | GHS07 (Harmful / Irritant) |
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Hazard Statements:

- H319 - Causes serious eye irritation
- H335 - May cause respiratory irritation
- H315 - Causes skin irritation
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Precautionary Statements (Prevention):

- P210 — Keep away from heat, hot surfaces, sparks, open flames. No smoking.
- P233 — Keep container tightly closed.
- P240 — Ground/bond container and receiving equipment.
- P241 — Use explosion-proof electrical/ventilating/lighting equipment.
- P242 — Use only non-sparking tools.
- P243 — Take precautionary measures against static discharge.
- P260 — Do not breathe vapours or spray.
- 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 Statements (Response):

- 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.
- P331 — Do NOT induce vomiting.
- P312 — Call a POISON CENTER or doctor if you feel unwell.

Precautionary Statements (Storage & Disposal):

- P403+P235 — Store in a well-ventilated place. Keep cool.
- 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 or concentration range | GHS Classification |
|-----------------------|---------|-------------------------|------------------------------|--|
| Citric Acid Anhydrous | 77-92-9 | See ECHA / supplier SDS | 100 | Skin Irrit. 2; Eye Irrit. 2; STOT SE 3 |

Note: Percentages are by volume. Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

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| Inhalation | Use product-specific first aid based on exposure route: move to fresh air after inhalation, wash skin, rinse eyes for at least 15 minutes, and seek medical advice after ingestion or persistent symptoms. |
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| Skin Contact | Remove contaminated clothing. Wash affected skin thoroughly with water and soap where appropriate. 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. |
| 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

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| Suitable Extinguishing Media | Use extinguishing media appropriate for the product hazard classification. Fire may produce toxic or irritating fumes; firefighters should wear SCBA. |
| Unsuitable Media | Direct high-pressure water jet where it may spread the material. |
| Specific Hazards | Use extinguishing media appropriate for the product hazard classification. Fire may produce toxic or irritating fumes; firefighters should wear SCBA. |
| Fire & Explosion Risk | Dust or fine particulate may form combustible or irritating atmospheres depending on product. Avoid dust clouds and ignition sources. Containers may rupture when heated. |
| Protective Equipment for Firefighters | Wear full protective clothing and self-contained breathing apparatus (SCBA). |
| Special Procedures | Evacuate non-essential personnel. Prevent contaminated run-off from entering drains and waterways. |

SECTION 6 ACCIDENTAL RELEASE MEASURES

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| Personal Precautions | Isolate area, use PPE from Section 8, prevent environmental release, and collect material in compatible labelled containers. |
| Environmental Precautions | Prevent entry into drains, sewers, soil and watercourses. |
| Containment Methods | Isolate area, use PPE from Section 8, prevent environmental release, and collect material in compatible labelled containers. |
| Clean-up Methods | Collect material into labelled containers 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

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| Handling Precautions | Use adequate ventilation, avoid contact and inhalation, and store tightly closed away from incompatible materials. |
| Hygiene | Wash hands after handling. Remove contaminated clothing before reuse. Do not eat, drink or smoke when using. |
| Storage Conditions | Use adequate ventilation, avoid contact and inhalation, and store tightly closed away from incompatible materials. |
| Storage Temperature | Store at ambient temperature unless supplier instructions specify otherwise. |
| Incompatible Materials | Strong oxidizers and product-specific incompatible substances; see supplier SDS before use. |
| Packaging | Store in original, tightly closed compatible containers. Inspect containers regularly for leakage or damage. |
| Segregation | Segregate from food, drink, animal feed and incompatible chemicals. |

**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

| Component | OEL (8h TWA) | STEL (15 min) | Standard | Notes |
|-----------------------|--|--|-------------------------------|---|
| Citric Acid Anhydrous | Use verified local OEL if established; otherwise ALARA/good industrial hygiene | Use verified local STEL/ceiling if established | OSHA/NIOSH/ACGI H/EU/UK/India | CAS 77-92-9; supplier/regional OEL confirmation required. |

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| Engineering Controls | Use closed handling/local exhaust for dust, mist, vapour or aerosol. Use explosion-proof ventilation and grounding for flammable liquids. |
| Respiratory Protection | If ventilation is inadequate, use a NIOSH/EN respirator: organic vapour, acid gas, ammonia, or P95/P100 particulate cartridge as applicable. Use SCBA for emergencies. |
| Hand Protection | Wear compatible chemical-resistant gloves, e.g. nitrile, butyl, neoprene, PVC or laminate; select thickness/breakthrough time for the product and task. |
| Eye/Face Protection | Wear EN 166/ANSI Z87.1 chemical splash goggles; add face shield for splash, corrosive, dust, molten or pressure-transfer risk. |
| Body Protection | Wear chemical-resistant clothing/apron and safety footwear; use antistatic PPE where flammable vapours may occur. |
| Hygiene Measures | Provide eyewash and safety shower where appropriate. Wash after handling. |

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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| Appearance | The appearance or features of this compound, including color, |
| Odour | PEER REVIEWED Odorless |
| Odour Threshold | Not established in reviewed public source text |
| pH | Not applicable unless supplied/used as an aqueous solution. For acids, alkalis, salts, surfactants and aqueous grades, verify pH from supplier COA/SDS before release. |
| Melting/Freezing Point | 307 °F (anhydrous) (NTP, 1992) |
| Boiling Point / Range | Decomposes (NTP, 1992) |
| Flash Point | 100 °C Solubility The solubility of a substance is the amount of that substance that will dissolve in a given amount of solvent. The default solvent is water, if not indicated. gre |
| Auto-ignition Temperature | 1850 °F (USCG, 1999) |
| Flammability Limits | See PubChem experimental properties. |
| Vapour Pressure | See PubChem experimental properties. |
| Vapour Density | See PubChem experimental properties. |
| Relative Density | 1.54 at 68 °F (USCG, 1999) - Denser than water; will sink |
| Solubility in Water | greater than or equal to 100 mg/mL at 72 °F (NTP, 1992) Very soluble in water; freely soluble in ethanol; soluble in ether |
| Log Pow (Partition Coeff) | PEER REVIEWED log Kow = -1.64 -1.64 -1.7 LogS The base-10 logarithm of the aqueous solubility of this compound. Autoignition Temperature The lowest temperature at which the substan |
| Evaporation Rate | See supplier SDS for grade-specific value |
| Viscosity | PEER REVIEWED 2.549 cP 30% aqueous solution at 20 °C Corrosivity The ability of a chemical to damage or destroy other substances when it comes into contact. |
| VOC Content | Assess per applicable regional VOC regulations |
| Reactivity | See Section 10 and source SDS for grade-specific reactivity |

**SECTION 10 STABILITY AND REACTIVITY**

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| Chemical Stability | Stable under recommended storage and handling conditions. |
| Conditions to Avoid | Avoid heat, ignition sources, contamination and incompatible materials. |
| Incompatible Materials | Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Avoid contact with concentrated acids and halogens. Reactive with aluminium chloride (AlCl ₃) under elevated temperature — not a concern in ambient blending or storage. |
| Hazardous Decomposition | Carbon oxides and irritating or toxic fumes may be formed in fire. |
| Hazardous Reactions | No hazardous reactions under normal storage unless noted by product reactivity. |
| Possibility of Hazardous React. | Will not occur under normal conditions when stored and handled correctly. |

SECTION 11 TOXICOLOGICAL INFORMATION

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| Acute Oral Toxicity | Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation. |
| Acute Dermal Toxicity | Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation. |
| Acute Inhalation Toxicity | Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation. |
| Skin Irritation | Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation. |
| Eye Irritation | Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation. |
| Sensitisation | Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation. |
| Specific Target Organ (Single) | Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation. |
| Specific Target Organ (Repeat) | Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation. |
| Reproductive Toxicity | Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation. |
| Aspiration Hazard | Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation. |
| Carcinogenicity | Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation. |
| Mutagenicity | Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation. |

SECTION 12 ECOLOGICAL INFORMATION

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| Aquatic Toxicity (Acute) | No aquatic classification identified in Section 2 from reviewed data. Numeric ecotoxicity was not universally verified; avoid release. |
| Aquatic Toxicity (Chronic) | No chronic aquatic classification identified in Section 2. Obtain supplier/ecotoxicity data if needed for registration or export. |
| Persistence / Degradability | Use supplier, ECHA or PubChem data where available. If not verified, do not assume ready biodegradability. |
| Bioaccumulation | Use verified log Kow/BCF data where available; UVCB/petroleum/surfactant materials need supplier formulation data. |



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| Mobility in Soil | Assess from solubility, adsorption potential and product form. Prevent release to soil and groundwater. |
| Other Adverse Effects | Avoid uncontrolled release to the environment. |
| Environmental Regulations | Manage releases and waste under applicable local environmental regulations. |

SECTION 13 DISPOSAL CONSIDERATIONS

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| Waste from Product | Dispose of contents through an authorized waste contractor in accordance with local regulations. |
| Contaminated Packaging | Empty containers may retain residues; handle as hazardous until cleaned or disposed. |
| European Waste Code | Assign waste code according to actual process and local regulation. |
| Indian Regulations | Follow local hazardous waste and pollution control requirements. |

SECTION 14 TRANSPORT INFORMATION

| Parameter | UN / ADR (Road) | IMDG (Sea) | IATA (Air) | Notes |
|-----------------------------|-------------------------------------|--------------------------------------|--------------------------------------|---|
| UN Number | Not regulated | Not regulated | Not regulated | No UN transport entry found in PubChem transport text |
| Proper Shipping Name | Not regulated | Not regulated | Not regulated | |
| Class | Not regulated | Not regulated | Not regulated | Transport class |
| Packing Group | Not regulated | Not regulated | Not regulated | |
| Marine Pollutant | No | No | — | |
| Tunnel Restriction | Not applicable | — | — | ADR |
| EmS (Sea) | — | Not applicable | — | IMDG |
| Special Provisions | Follow applicable ADR requirements. | Follow applicable IMDG requirements. | Follow applicable IATA requirements. | Verify current carrier rules before shipment |

Packaging: approved compatible container appropriate to the product. UN-certified drum required for international transport. Drum must be labelled with Class 3 placard, Not regulated, PG II, and product name.

SECTION 15 REGULATORY INFORMATION

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| EU / REACH | Observe REACH and CLP requirements where applicable. |
| EU CLP Regulation | Classified and labelled according to the product-specific GHS/CLP classification listed in Section 2. |
| EU Directive | Observe applicable workplace chemical, VOC and environmental requirements. |
| OSHA (USA) | Prepared in OSHA HCS/HazCom aligned 16-section SDS format. |
| India | Observe applicable Indian MSIHC, workplace, storage, transport, pollution-control and hazardous-waste requirements. |
| China (GB Standards) | Use applicable GB/T SDS and classification requirements where marketed. |
| Middle East / GCC | Observe applicable GHS-aligned local requirements. |
| TSCA (USA) | Verify TSCA inventory/SNUR status before US import or distribution; mixture/UVCB status may require supplier confirmation. |



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| Australia (AICS) | Check inventory status before export or import. |
| Special Notes | No product-specific special note beyond the classification in Section 2. |
| Canada WHMIS / HPR | Classify/label under WHMIS 2015/HPR using Section 2 classification; Canadian sale may require bilingual SDS/label and ingredient disclosure. |
| Regulatory Scope Limitation | Final market placement requires confirmation of inventory status, local OELs, transport class, waste code and restrictions. |

SECTION 16 OTHER INFORMATION

Full Text of H-Statements:

- H319 - Causes serious eye irritation
- H335 - May cause respiratory irritation
- H315 - Causes skin irritation
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|------------------------------|---|
| 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 SDS format |
| Revision Date | 22 May 2026 |
| Version | 1.0 |
| Replaces Version | N/A - Initial Issue |
| Key Sources | SPC product page; original SPC SDS template; consolidated SDS audit CSV dated 27 May 2026; UN GHS Rev.11 Annex 4; OSHA HCS Appendix D; EU REACH Annex II/CLP; Canada WHMIS/HPR; PubChem, ECHA, NIOSH/OSHA, CAMEO and public supplier SDS/transport references where available. Accessed May 2026. |
| Audit Correction Note | Corrected from audit findings. Verification-required items need supplier formulation, test or regulatory data before market-specific release. |

DISCLAIMER

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