



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)

Trichloroisocyanuric Acid
(TCCA) *SDS*

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

CAS 87-90-1 EC 201-782-8 SIGNAL WORD DANGER

GHS03

Oxidizer

GHS05

Corrosive

GHS07

Harmful / Irritant

GHS09

Environmental
Hazard

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

Product Name	Trichloroisocyanuric Acid (TCCA)
Product Type	Trichloroisocyanuric Acid — corrosive / oxidising solid
Chemical Family	Chlorinated isocyanurate
CAS No.	87-90-1
EC No.	201-782-8
Intended Use	Industrial / professional use as described on the SPC product page. Used as a chlorinating agent in water treatment, swimming pool disinfection, and industrial bleaching.
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/trichloroisocyanuric-acid-tcca
SDS Revision	July 2026
SDS Version	3.1



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SECTION 2 HAZARD IDENTIFICATION

Ox. Sol. 2; Acute Tox. 4 (oral); Skin Corr. 1; Skin Irrit. 2; Eye Dam. 1; Eye Irrit. 2; STOT SE 3; Aquatic Acute 1; Aquatic Chronic 1

Signal Word	DANGER
GHS Pictograms	GHS03 (Oxidizer) GHS05 (Corrosive) GHS07 (Harmful / Irritant) GHS09 (Environmental Hazard)

HAZARD STATEMENTS

- H272 — May intensify fire; oxidizer
- H302 — Harmful if swallowed
- H314 — Causes severe skin burns and eye damage
- H315 — Causes skin irritation
- H318 — Causes serious eye damage
- H319 — Causes serious eye irritation
- H332 — Harmful if inhaled
- H335 — May cause respiratory irritation
- H400 — Very toxic to aquatic life
- H410 — Very toxic to aquatic life with long lasting effects

PRECAUTIONARY – PREVENTION

- P210 — Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P220 — Keep away from clothing and other combustible materials.
- P221 — Take precautionary measures against mixing with combustibles.
- P260 — Do not breathe dust / fume / 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 / protective clothing / eye protection / face protection.



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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.
- P303+P361+P353 – IF ON SKIN OR HAIR: 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.
- P310 – Immediately call a POISON CENTER or doctor.
- P314 – Get medical advice / attention if you feel unwell.
- P363 – Wash contaminated clothing before reuse.
- P370+P378 – In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
- 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
Trichloroisocyanuric Acid (TCCA)	87-90-201-1	782-8	100	Ox. Sol. 2; Acute Tox. 4 (oral); Skin Corr. 1; Skin Irrit. 2; Eye Dam. 1; Eye Irrit. 2; STOT SE 3; Aquatic Acute 1; Aquatic Chronic 1 – H272, H302, H314, H315, H318, H319, H332, H335, H400, H410

Full text of H-statements listed in Section 16. EC No. confirmed from ECHA entry for CAS 87-90-1.

SECTION 4 FIRST AID MEASURES

Inhalation

Remove person to fresh air immediately. Keep at rest in a position comfortable for breathing. If breathing is difficult, administer oxygen. Seek medical attention if symptoms persist or are severe.



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Skin Contact	Remove contaminated clothing immediately. Flush affected skin with large amounts of water for at least 15 minutes. Seek medical attention if irritation, burns or symptoms persist. Wash contaminated clothing before reuse.
Eye Contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately seek medical attention — product causes serious eye damage.
Ingestion	Rinse mouth with water. Do NOT induce vomiting. If conscious, give water to drink. Immediately call a POISON CENTER or doctor. Never give anything by mouth to an unconscious person.
Note to Physician	Treat symptomatically. TCCA is a strong oxidiser and may cause chemical burns. Consider chlorine gas inhalation risk if product is contaminated with water or acid. Supportive care; no specific antidote.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Large quantities of water (flooding). Dry sand or dry chemical where water is unavailable. CO ₂ is generally not recommended for Class 5.1 oxidising solids.
Unsuitable Media	Do not use direct high-pressure water jet that may scatter burning material. Avoid CO ₂ for large fires involving oxidisers.
Specific Hazards	TCCA is a strong oxidising agent. In fire it releases toxic chlorine gas and nitrogen oxides. Contact with heat or flames may accelerate decomposition and intensify fire. Containers may rupture when exposed to heat.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA) — positive pressure, full-face type. Do not enter fire area without SCBA.
Special Procedures	Evacuate non-essential personnel upwind. Cool fire-exposed containers with flooding quantities of water from a safe distance. Prevent contaminated fire-fighting run-off from entering drains, waterways or soil. Decomposition products (Cl ₂ , NO _x , HCl, isocyanuric acid) are toxic; do not inhale.



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SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Isolate the spill area. Keep non-essential personnel upwind and away. Wear full PPE as specified in Section 8 (SCBA, chemical-resistant suit, gloves, eye protection). Do not touch or walk through spilled material. Avoid generating dust.
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses. TCCA is very toxic to aquatic life. Notify relevant authorities if product reaches drains or waterways.
Containment / Clean-up	Contain spill using dry inert material (dry sand, dry earth — NOT sawdust or combustibles). Collect material carefully into labelled, compatible, sealed containers. Avoid contact with water, acids, alkalis or combustibles. Clean area with large amounts of water after solids are removed. Collect all contaminated wash water for appropriate disposal.
Reference to Sections	See Section 8 for PPE details, Section 13 for disposal guidance, Section 15 for regulatory requirements.

SECTION 7 HANDLING AND STORAGE

Handling Precautions	Handle in a well-ventilated area or under local exhaust ventilation. Avoid generating dust. Keep away from heat, ignition sources, acids, combustibles and reducing agents. Do not mix with other chemicals in packaging. Use dedicated, compatible equipment.
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. Provide eyewash station and safety shower in the work area.
Storage Conditions	Store in original, tightly closed, compatible containers (HDPE or lined steel) in a cool, dry, well-ventilated area away from direct sunlight. Keep away from combustible materials, reducing agents, acids, and ammonia compounds.
Storage Temperature	Below 30°C recommended. Keep cool and away from heat sources.
Incompatible Materials	Strong reducing agents, combustible materials, acids (particularly concentrated), alkalis, ammonia and ammonia compounds, moisture (water causes decomposition and chlorine gas release), organic materials, halogens, metal powders.



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Segregation	Segregate from food, drink, animal feed, combustibles, flammables, acids, bases, and other oxidising agents. Store separately from incompatible chemicals. Observe MSIHC Rules (India) for storage of oxidising substances.
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SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	No specific OEL established for TCCA (CAS 87-90-1) in Indian, OSHA or ACGIH references at time of issue. For chlorine gas (potential decomposition product): OSHA PEL 1 ppm ceiling; ACGIH TLV-C 0.5 ppm. Apply ALARA / good industrial hygiene practice. Confirm with supplier / regional authority.
Engineering Controls	Use closed-system handling and local exhaust ventilation (LEV) to control dust and vapour. Explosion-proof ventilation is not required (non-flammable solid) but general forced-air ventilation is essential. Provide emergency eyewash and safety shower.
Respiratory Protection	When LEV is inadequate: use a NIOSH / EN 143-approved P100 particulate respirator for dust. In cases of decomposition or fire risk, use a full-face SCBA. Selection based on airborne concentration and applicable OEL.
Hand / Eye / Skin	Hands: Chemical-resistant gloves (nitrile $\geq$ 0.4 mm, neoprene, or butyl rubber); check breakthrough time for product concentration. Eyes: Chemical splash goggles (EN 166 / ANSI Z87.1); add full face-shield when handling bulk or in splash-risk operations. Body: Chemical-resistant apron or full suit; chemical-resistant safety footwear. Remove and wash contaminated clothing immediately.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White crystalline powder or granules / tablets
Odour	Pungent chlorine-like odour
Odour Threshold	Not established
pH	Approx. 2.7–3.3 (1% aqueous solution at 25°C); not applicable to dry solid
Melting / Freezing Point	Approx. 246°C (decomposes) [SOURCE VALUE: 246.7°C — re-mapped from source; original text placed this value under Flash Point label in error]



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Boiling Point / Range	Decomposes before boiling; no boiling point applicable [SOURCE: field showed garbled solubility text — not a boiling point value; flagged]
Flash Point	> 250°C (482°F) open cup [SOURCE VALUE: re-mapped from Auto-ignition Temperature label in source — value and units are consistent with flash point for TCCA per PubChem / USCG]
Auto-ignition Temperature	Not established; TCCA is an oxidiser and decomposes above ~230°C. See Section 10.
Flammability Limits	Not applicable (solid oxidiser; not flammable in the conventional sense)
Vapour Pressure	Approximately 0.00000012 mmHg at 25°C (negligible) [SOURCE VALUE: re-mapped from Solubility in Water label in source]
Vapour Density (air = 1)	Not applicable (solid)
Relative Density	> 1 (est.); typically 0.9–1.2 g/cm ³ (bulk) / approx. 1.98–2.07 g/cm ³ (crystal) [SOURCE NOTE: source value '>1 at 68°F (USCG 1999)' was placed under Viscosity label — re-mapped here; confirm exact value with supplier COA]
Solubility in Water	Approx. 1.2 g/100 mL at 25°C; also soluble in chlorinated and highly polar solvents [SOURCE VALUE: solubility text re-mapped from VOC Content label in source]
Log Pow (Partition Coeff.)	0.26 (est.) [SOURCE VALUE: re-mapped from unlabelled trailing field in source; flagged for supplier confirmation]
Evaporation Rate	Not applicable (solid)
Viscosity	Not applicable (solid)
VOC Content	Not applicable (solid); assess per applicable regional VOC regulations if dissolved/formulated

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended dry storage and handling conditions. Decomposes above approx. 230–250°C. Contact with moisture or water causes slow decomposition with release of chlorine.
Conditions to Avoid	Heat above 50°C, direct sunlight, moisture, contamination with incompatible materials, ignition sources.
Incompatible Materials	Strong reducing agents, combustible and organic materials, concentrated acids (release Cl ₂), alkalis, ammonia and ammonium salts (risk of explosive NCl ₃ formation), metal powders, moisture/water.



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Hazardous Decomposition	On heating or in fire: chlorine gas (Cl ₂), hydrogen chloride (HCl), nitrogen oxides (NO _x), carbon monoxide/dioxide, and isocyanuric acid fumes. These are toxic and/or irritating.
Hazardous Reactions	Contact with water or acids releases chlorine gas. Contact with ammonia or ammonium salts may produce nitrogen trichloride (NCl ₃), which is explosive. No hazardous polymerisation.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Classified Acute Tox. 4 (H302 — Harmful if swallowed). LD ₅₀ (rat, oral): approx. 406 mg/kg (literature value; confirm with supplier test data).
Acute Dermal Toxicity	No definitive LD ₅₀ data available from reviewed public sources. Classified as corrosive (Skin Corr. 1, H314). Causes severe chemical burns on contact.
Acute Inhalation Toxicity	Classified H332 (Harmful if inhaled). Dust and decomposition vapours (Cl ₂) are irritating and potentially toxic. LC ₅₀ data not confirmed; ALARA handling required.
Skin Irritation	Classified Skin Corr. 1 (H314) / Skin Irrit. 2 (H315). Causes severe burns and irritation on prolonged or repeated contact.
Eye Irritation	Classified Eye Dam. 1 (H318) and Eye Irrit. 2 (H319). Causes serious eye damage and irritation. Immediate rinsing and medical attention required.
Sensitisation	No data confirming respiratory or skin sensitisation from reviewed public sources. Not classified as sensitiser. Confirm with supplier.
Carcinogenicity	Not classified as carcinogen. Not listed in IARC, NTP or OSHA carcinogen lists based on reviewed sources. Confirm with supplier.
Mutagenicity	Not classified as mutagen based on reviewed sources. Confirm with supplier.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	Classified Aquatic Acute 1 (H400) and Aquatic Chronic 1 (H410). Very toxic to aquatic organisms. LC ₅₀ / EC ₅₀ values should be confirmed from supplier or ECHA REACH dossier. Prevent any release to surface water or drains.
Persistence / Degradability	Hydrolysis in water produces cyanuric acid and hypochlorous acid. Cyanuric acid is persistent in water. TCCA itself is not considered



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	readily biodegradable. Obtain confirmed biodegradation data from supplier.
Bioaccumulation	Log Pow approx. 0.26 (est.) — low bioaccumulation potential. Confirm with supplier test data or ECHA dossier.
Mobility in Soil	Moderately soluble; may leach into groundwater. High soil mobility potential if spilled. Prevent release to soil and groundwater.
Other Adverse Effects	Avoid all uncontrolled release to the environment. Chlorine gas generated on decomposition or contact with water is acutely toxic to aquatic life. Manage under applicable environmental regulations.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste from Product	Dispose of through an authorised waste contractor in accordance with local hazardous waste regulations. Do not pour down drains or into the environment. Small quantities may be neutralised with excess sodium thiosulfate solution before disposal (confirm with local authority).
Contaminated Packaging	Empty containers may retain oxidising residues; handle as hazardous until decontaminated. Return to supplier or dispose of through an approved waste contractor.
Indian Regulations	Comply with the Hazardous Waste (Management, Handling and Transboundary Movement) Rules 2016 under the Environment Protection Act 1986. Follow applicable CPCB / SPCB guidelines. Consult your State Pollution Control Board (SPCB — Tamil Nadu: TNPCB) for waste disposal approvals.

SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	UN 2468	UN 2468	UN 2468
Proper Shipping Name	TRICHLOROISOCYANURIC ACID, TRICHLOROISOCYANURIC ACID, DRY	TRICHLOROISOCYANURIC ACID, DRY	TRICHLOROISOCYANURIC ACID, DRY
Class	5.1 (Oxidising substance)	5.1 (Oxidising substance)	5.1 (Oxidising substance)
Packing Group	II	II	II
Marine Pollutant	Verify with carrier (aquatic hazard H410 present)	Yes (Aquatic Chronic 1)	N/A (air transport)



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Transport classification based on UN Model Regulations and PubChem/DOT ERG reference data. Verify current requirements with carrier and applicable regulatory edition before shipment. UN-certified packaging required. Packages must bear Class 5.1 oxidiser placard, UN number, PG II markings and proper shipping name. Tunnel restriction code: verify with ADR edition in force.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Subject to REACH Regulation (EC) No 1907/2006. Classified and labelled in accordance with CLP Regulation (EC) No 1272/2008 as listed in Section 2. Authorised and restricted uses must be confirmed under REACH Annex XIV/XVII.
OSHA (USA)	Prepared in OSHA HCS/HazCom 2012 (29 CFR 1910.1200) aligned 16-section SDS format. Verify TSCA inventory status (CAS 87-90-1) before US import or distribution.
India	Observe the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules 1989 (amended 2000). Follow Environment Protection Act 1986, Hazardous Waste Rules 2016, Water/Air Pollution Prevention Acts, and applicable BIS standards. Comply with CPCB / TNPCB requirements for storage and disposal in Tamil Nadu.
Other Jurisdictions	Canada WHMIS 2015 / HPR: classify and label per Section 2 classification; Canadian sale requires bilingual SDS/label and ingredient disclosure. Australia (AICS): verify inventory listing. China (GB Standards): comply with GB/T SDS requirements where marketed. GCC / Middle East: apply applicable GHS-aligned local requirements. Confirm jurisdiction-specific requirements before market placement.

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



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