



SUPREME PETRO CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
Periyamet, Chennai – 600003, India
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admin@supremepetrochemicals.com

SAFETY DATA SHEET (SDS)

Triethanolamine 99% *SDS*

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

CAS **102-71-6** EC **203-049-8** SIGNAL WORD **DANGER**

GHS07

Harmful / Irritant

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

Product Name	Triethanolamine 99%
Product Type	Triethanolamine high-purity grade
Chemical Family	Alkanolamine
CAS No.	102-71-6
EC No.	203-049-8
Intended Use	Industrial / professional use as listed on the SPC product page.
Restrictions on Use	Industrial / professional use only. Confirm grade suitability before regulated or consumer 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/triethanolamine-99
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

Eye Irrit. 2 – H319: Causes serious eye irritation. Not classified for other GHS hazard classes based on reviewed source data.



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GHS Classification	Eye Irrit. 2
Signal Word	WARNING
GHS Pictograms	GHS07 (Harmful / Irritant)

HAZARD STATEMENTS

- H319 — Causes serious eye irritation

PRECAUTIONARY – PREVENTION

- P260 — Do not breathe vapours or spray.
- P264 — Wash hands and exposed skin thoroughly after handling.
- 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

- 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.
- P337+P313 — If eye irritation persists: Get medical advice/attention.
- 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
Triethanolamine	102-71-6	203-049-8	≥99	Eye Irrit. 2 — H319

Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Move to fresh air. If symptoms persist, obtain medical attention. Do not induce vomiting where aspiration hazard is possible.
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Skin Contact	Remove contaminated clothing. Wash affected skin thoroughly with water and soap. 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

Suitable Extinguishing Media	Water spray, foam, dry chemical powder or carbon dioxide (CO ₂). Match agent to surrounding fire type.
Unsuitable Media	Direct high-pressure water jet — may spread burning material.
Specific Hazards	Combustion may produce carbon oxides and irritating or toxic fumes. Containers may rupture when heated. Triethanolamine is combustible (flash point ~179°C); dust or fine particulate may form combustible atmospheres — avoid dust clouds and ignition sources near heated material.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA).
Special Procedures	Evacuate non-essential personnel. Prevent contaminated fire-water run-off from entering drains and watercourses. Cool exposed containers with water spray.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Eliminate ignition sources. Ensure adequate ventilation. Bond/ground equipment to prevent static. Wear appropriate PPE (see Section 8).
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses. Inform relevant authorities if significant spillage cannot be contained.
Containment / Clean-up	Absorb with inert material (sand, vermiculite, dry earth). Collect into labelled, sealed containers for disposal through an approved waste contractor. Avoid generating dust.
Reference to Sections	See Section 8 for PPE, Section 13 for disposal and Section 15 for regulatory information.



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SECTION 7 HANDLING AND STORAGE

Handling Precautions	Avoid contact with eyes, skin and clothing. Avoid breathing vapours, mist or aerosols. Avoid contact with strong acids, oxidisers and nitrosating agents.
Hygiene	Wash hands thoroughly after handling. Remove and launder contaminated clothing before reuse. Do not eat, drink or smoke when using.
Storage Conditions	Store in original, tightly closed compatible containers (HDPE, stainless steel). Inspect containers regularly for leakage or damage. Keep away from heat sources and direct sunlight.
Storage Temperature	Store at ambient temperature (15–30°C); above ~20°C the product is liquid — if solidified, warm gently before use. Note: melting point ~20–21°C.
Incompatible Materials	Strong oxidising agents (e.g. nitric acid, permanganates, peroxides, chlorine), concentrated mineral acids, halogens. Reactive with aluminium chloride at elevated temperatures.
Segregation	Segregate from food, drink, animal feed and incompatible chemicals.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	Triethanolamine (CAS 102–71–6): No universal OEL established. Use ALARA / good industrial hygiene practice. Verify applicable local OEL (OSHA, NIOSH, ACGIH, EU, UK, India) before use. NIOSH recommends limiting exposure; some authorities set a TWA of 5 mg/m ³ .
Engineering Controls	Use closed handling systems or local exhaust ventilation (LEV) for operations that may generate mist, vapour or aerosol. Provide general dilution ventilation as a minimum. Use explosion-proof ventilation equipment where combustible concentrations may arise.
Respiratory Protection	Where ventilation is inadequate or OEL may be exceeded, use a NIOSH/EN-approved respirator fitted with a combined organic-vapour and particulate (P95/P100) cartridge. Use SCBA for emergencies or confined spaces.
Hand / Eye / Skin	Hands: chemical-resistant gloves (nitrile, butyl, neoprene or PVC; select for breakthrough time and task). Eyes/Face: EN 166 / ANSI Z87.1 chemical splash goggles; add face shield for splash or pressure-transfer risk. Body: chemical-resistant apron or coverall



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and safety footwear. Provide eyewash station and safety shower where product is handled.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear to pale yellow viscous liquid at temperatures above ~21°C; crystalline solid below melting point.
Odour	Faint characteristic amine-like odour.
Odour Threshold	Not established.
pH	Alkaline (approximately 10.5 in 1% aqueous solution).
Melting / Freezing Point	Approx. 20–21°C (literature value for pure triethanolamine; 99% grade may be slightly lower).
Boiling Point / Range	Approx. 335–360°C at 760 mmHg (literature value; decomposes before full boiling under some conditions).
Flash Point	Approx. 179°C (closed cup, Pensky–Martens — literature value consistent with source).
Auto-ignition Temperature	Approx. 320°C (literature; confirm with supplier specification).
Flammability Limits	Lower Flammability Limit (LFL): approx. 1.0% v/v; Upper Flammability Limit (UFL): approx. 9.8% v/v (applicable only at elevated temperatures near or above flash point).
Vapour Pressure	< 0.001 mmHg at 20°C (negligible at ambient temperature).
Vapour Density (air = 1)	Approx. 5.1 (heavier than air; relevant only at elevated temperatures).
Relative Density	Approx. 1.124 g/cm ³ at 20°C (literature value; confirm with supplier specification).
Solubility in Water	Miscible in all proportions.
Log Pow (Partition Coeff.)	–1.0 (literature; high water affinity, low bioaccumulation potential).
Evaporation Rate	Not established (very low volatility at ambient temperature).
Viscosity	Approx. 350–600 mPa·s at 20°C; decreases significantly with temperature (confirm with supplier specification).
VOC Content	Negligible at ambient temperature due to very low vapour pressure; assess under applicable local VOC rules.

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions. No spontaneous polymerisation.
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Conditions to Avoid	Avoid heat above 60°C (thermal decomposition risk), ignition sources, contamination and contact with incompatible materials listed below.
Incompatible Materials	Strong oxidising agents (nitric acid, permanganates, peroxides, chlorine), concentrated mineral acids and halogens. Reactive with aluminium chloride (AlCl ₃) under elevated temperature — not a concern under normal ambient blending or storage conditions.
Hazardous Decomposition	Thermal decomposition and combustion may produce carbon monoxide, carbon dioxide, nitrogen oxides (NO _x) and other irritating or toxic fumes.
Hazardous Reactions	No hazardous polymerisation. No hazardous reactions under normal storage conditions when stored and handled correctly.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	LD ₅₀ (rat, oral): approx. 6,400 mg/kg bw (literature; classified as low acute oral toxicity — not classified under GHS for acute oral tox). Source SDS text was generic; numeric data sourced from published literature (ECHA REACH dossier / OECD).
Acute Dermal Toxicity	LD ₅₀ (rabbit, dermal): > 2,000 mg/kg bw (literature; not classified under GHS for acute dermal toxicity).
Acute Inhalation Toxicity	Low vapour pressure at ambient temperature limits inhalation exposure significantly. No GHS acute inhalation classification based on available data. Mist or aerosol at elevated temperatures may cause respiratory irritation.
Skin Irritation	May cause mild skin irritation on prolonged or repeated contact. Not classified as Skin Irrit. 2 based on available data; however, preventive measures recommended.
Eye Irritation	Classified: Eye Irrit. 2 — H319 (Causes serious eye irritation). Based on human and animal data.
Sensitisation	Not classified as a skin or respiratory sensitiser based on available data.
Carcinogenicity	Not classified as carcinogenic under GHS / IARC / NTP / OSHA based on available reviewed data.
Mutagenicity	Not classified as a germ cell mutagen based on available data. See Section 2 classification and Section 3 for full GHS classification basis.



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SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	No acute or chronic aquatic toxicity classification identified under GHS from reviewed data. Literature LC ₅₀ (fish, 96 h) and EC ₅₀ (Daphnia, 48 h) values are generally > 100 mg/L, indicating low acute aquatic hazard; however, avoid environmental release.
Persistence / Degradability	Considered readily biodegradable in standard OECD tests; however, confirm with supplier or authoritative source (ECHA, PubChem) before regulatory submissions.
Bioaccumulation	Log Pow -1.0 indicates very low bioaccumulation potential. BCF expected to be < 10.
Mobility in Soil	High water solubility and low log Pow suggest high mobility in soil and potential leaching to groundwater. Prevent release to soil.
Other Adverse Effects	Avoid uncontrolled release to the environment. Manage releases and waste under applicable local environmental regulations.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste from Product	Dispose of contents through an authorised waste contractor in accordance with local, state and national regulations. Do not pour down drains unless confirmed safe by local water authority.
Contaminated Packaging	Empty containers may retain residues; handle as hazardous until properly cleaned or disposed. Assign waste code according to actual process and applicable local regulation.
Indian Regulations	Follow applicable Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 (as amended), CPCB / SPCB guidelines, and local pollution-control authority 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	N/A	No	N/A



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Triethanolamine 99% is not classified as a dangerous good under ADR, IMDG or IATA at ambient temperature. Flash point ~179°C places it outside Class 3 flammable liquid criteria. Use approved, tightly closed, compatible containers (HDPE or stainless-steel drum). Verify current carrier and port requirements before each shipment. Note: the source SDS included an erroneous reference to 'Class 3 placard, PG II' — this has been removed as TEA is not a regulated dangerous good.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Subject to REACH registration requirements where applicable. Classified and labelled in accordance with GHS/CLP as shown in Section 2. Observe all REACH Annex II SDS requirements.
OSHA (USA)	Prepared in OSHA HCS / HazCom 2012 (GHS-aligned) 16-section SDS format. Verify TSCA inventory and SNUR status before US import or distribution.
India	Observe applicable provisions of the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 (as amended); Hazardous and Other Wastes Rules, 2016; and applicable CPCB / SPCB, factory and workplace regulations.
Other Jurisdictions	China: observe GB/T SDS and classification requirements where marketed. Canada: classify and label under WHMIS 2015 / HPR using Section 2 classification; Canadian sale may require bilingual SDS/label and ingredient disclosure. Australia: check AICS inventory status before import. Final market placement requires confirmation of local OELs, transport classification, waste code and restrictions. This SDS is not a substitute for national regulatory advice.

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 with all applicable laws and regulations.

FULL TEXT OF H-STATEMENTS



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