



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)

Triethanolamine 85% *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 85%
Product Type	Triethanolamine solution / 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-85
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 (H319)
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 any exposed skin thoroughly after handling.
- P271 — Use only outdoors or in a well-ventilated area.
- P273 — Avoid release to the environment.
- P280 — Wear protective gloves / eye protection / face protection.

PRECAUTIONARY — RESPONSE / STORAGE / DISPOSAL

- P305+P351+P338 — IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P337+P313 — If eye irritation persists: Get medical advice / attention.
- P304+P340 — IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 — Call a POISON CENTER or doctor if you feel unwell.
- P301+P312 — IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
- P331 — Do NOT induce vomiting.
- 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	GHS CLASSIFICATION
Triethanolamine	102-71-6	203-049-8	Approx. 85	Eye Irrit. 2 — H319



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COMPONENT	CAS NO.	EC NO.	% W/W	GHS CLASSIFICATION
Water / other ethanolamines (diethanolamine, Mixture monoethanolamine)		Mixture	Balance (approx. 15)	See supplier specification

Percentages are by weight (w/w). 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.
Skin Contact	Remove contaminated clothing. Wash affected skin thoroughly with soap and water. 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. Continue rinsing. 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, or carbon dioxide suitable for surrounding fire.
Unsuitable Media	Direct high-pressure water jet where it may spread the material.
Specific Hazards	Combustion may produce irritating or toxic fumes including carbon oxides and amine vapours. Containers may rupture when heated.
Protective Equipment	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

Personal Precautions	Eliminate ignition sources. Ventilate area. Bond / ground equipment. Wear appropriate PPE (see Section 8).
Environmental Precautions	Prevent entry into drains, sewers, soil, and watercourses.



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Containment / Clean-up	Absorb spill with inert material (e.g. sand, vermiculite). 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

Handling Precautions	Avoid contact with eyes, skin, and clothing. Avoid breathing vapours or mist. Avoid contact with strong acids, oxidisers, and nitrosating agents.
Hygiene	Wash hands and exposed skin after handling. Remove contaminated clothing before reuse. Do not eat, drink, or smoke when using.
Storage Conditions	Store in original, tightly closed compatible containers in a cool, dry, well-ventilated area. Inspect containers regularly for leakage or damage.
Storage Temperature	Ambient temperature (unless supplier instructions specify otherwise). Triethanolamine 85% remains liquid above approximately 12°C; maintain above freezing point to prevent solidification.
Incompatible Materials	Strong oxidising agents (e.g. nitric acid, permanganates, peroxides), concentrated acids, halogens.
Segregation	Segregate from food, drink, animal feed, acids, and incompatible chemicals.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	Triethanolamine (CAS 102-71-6): ACGIH TLV-TWA 5 mg/m ³ (inhalable fraction; verify current value). No established OSHA PEL. Verify local OEL (India / CPCB / state regulations) before use; apply ALARA where no OEL exists.
Engineering Controls	Use closed handling systems or local exhaust ventilation adequate to control vapour / mist / aerosol below applicable OELs.
Respiratory Protection	If ventilation is inadequate, use a NIOSH / EN-approved respirator with organic vapour / ammonia cartridge or P95/P100 particulate filter as applicable. Use SCBA for emergencies or oxygen-deficient atmospheres.



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Hand / Eye / Skin	Gloves: chemical-resistant (nitrile, butyl, neoprene, or PVC); select breakthrough time for the task. Eye / face: chemical splash goggles (EN 166 / ANSI Z87.1); add face shield for splash risk. Body: chemical-resistant clothing / apron; safety footwear. Provide eyewash station and safety shower where appropriate.
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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear to pale yellow viscous liquid.
Odour	Mild characteristic amine odour.
Odour Threshold	Not established.
pH	Alkaline (approx. 10.5 at 1% aqueous solution; verify with supplier).
Melting / Freezing Point	Approx. 12°C for 85% grade (pure TEA 21.6°C); confirm with supplier.
Boiling Point / Range	Approx. 335°C (pure triethanolamine); confirm with supplier.
Flash Point	Approx. 179°C (closed cup) — not classified as flammable liquid.
Auto-ignition Temperature	Not established.
Flammability Limits	Not established.
Vapour Pressure	< 0.01 hPa at 20°C (negligible at ambient temperature).
Vapour Density (air = 1)	Not established.
Relative Density	Approx. 1.09–1.10 g/cm ³ at 20°C for 85% grade; confirm with supplier.
Solubility in Water	Miscible in all proportions.
Log Pow (Partition Coeff.)	Not established for supplied commercial grade.
Evaporation Rate	Not established (low volatility; high boiling point).
Viscosity	Viscous liquid; confirm kinematic viscosity with supplier.
VOC Content	Assess under applicable local VOC rules.

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Avoid heat, ignition sources, contamination with incompatible materials, and exposure to strong acids or oxidising agents.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Concentrated acids. Halogens. Reactive with aluminium chloride (AlCl ₃) under elevated temperature — not a concern in ambient blending or storage.
Hazardous Decomposition	Carbon oxides (CO, CO ₂) and irritating or toxic amine fumes may be formed in fire or on thermal decomposition.



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Hazardous Reactions	No hazardous reactions under normal storage and handling conditions.
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SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Low acute oral toxicity: LD50 rat approx. 5.9 g/kg (OECD 401 / RTECS data). Not classified for acute oral toxicity under GHS.
Acute Dermal Toxicity	Low acute dermal toxicity: LD50 rabbit > 2 g/kg. Not classified for acute dermal toxicity under GHS.
Acute Inhalation Toxicity	Low vapour pressure at ambient temperature limits inhalation exposure. Not classified for acute inhalation toxicity under GHS. Mist / aerosol may be irritating to the respiratory tract.
Skin Irritation	Not classified as a skin irritant under GHS from reviewed data. Prolonged or repeated contact may cause mild irritation; remove contaminated clothing and wash skin promptly.
Eye Irritation	Classified Eye Irrit. 2 – H319. Causes serious eye irritation. Flush immediately with water for at least 15 minutes.
Sensitisation	Not classified as a skin or respiratory sensitiser under GHS from reviewed data.
Carcinogenicity	Not classified as a carcinogen (not listed by IARC, NTP, or OSHA as a known/probable human carcinogen). Verify with supplier / current regulatory listings.
Mutagenicity	Not classified for germ cell mutagenicity under GHS from reviewed data. Confirm with supplier / ECHA dossier.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	Not classified for acute or chronic aquatic hazard in Section 2 from reviewed data. Triethanolamine is moderately toxic to aquatic organisms; avoid uncontrolled release. Obtain verified ecotoxicity data from supplier or ECHA CHEM if needed for registration or export compliance.
Persistence / Degradability	Triethanolamine is considered readily biodegradable under aerobic conditions based on published data (confirm with supplier / ECHA). Not assumed readily biodegradable without verified test data.
Bioaccumulation	Low bioaccumulation potential expected (log Kow approximately -1.0, highly water-soluble). Verify log Kow / BCF with supplier data.



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Mobility in Soil	High mobility expected due to high water solubility and low Koc. Prevent release to soil and groundwater.
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 / national regulations. Do not pour down drains unless authorised.
Contaminated Packaging	Empty containers may retain residues; handle as hazardous until triple-rinsed or disposed of through an approved contractor.
Indian Regulations	Follow Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 (amended), applicable CPCB / SPCB requirements, and local pollution-control board guidance.

SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	Not regulated	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	No	No	—

Triethanolamine 85% is not classified as a dangerous good under ADR, IMDG, or IATA regulations. Flash point approx. 179°C — above thresholds for flammable liquid classification. Use approved, compatible, tightly closed containers. Verify carrier rules before each shipment.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Subject to REACH registration obligations where applicable. Classified and labelled according to CLP / GHS classification in Section 2 (Eye Irrit. 2, H319). Observe applicable workplace chemical and environmental requirements.
OSHA (USA)	Prepared in OSHA HCS / HazCom aligned 16-section SDS format. Verify TSCA inventory status before US import or distribution.



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India	Observe applicable Manufacture, Storage and Import of Hazardous Chemical (MSIHC) Rules 1989 (amended), Factories Act, Environment Protection Act, Hazardous Waste Rules 2016, and relevant CPCB / SPCB requirements.
Other Jurisdictions	Canada WHMIS 2015 / HPR: classify and label using Section 2 classification; Canadian sale may require bilingual SDS / label and ingredient disclosure. China: apply GB/T SDS and classification requirements where marketed. Australia: check AICS inventory status before import or export. GCC / Middle East: apply GHS-aligned local requirements. Final market placement requires confirmation of local OELs, inventory status, transport classification, and waste codes.

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

- H319 — Causes serious eye irritation