



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)

Di Ethanol Amine (DEA) *SDS*

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

CAS 111-42-2 EC 203-868-0 SIGNAL WORD DANGER

GHS05

Corrosive

GHS07

Harmful / Irritant

GHS08

Health Hazard

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

Product Name	Di Ethanol Amine (DEA)
Product Type	Diethanolamine — corrosive / irritant chemical
Chemical Family	Alkanolamine
CAS No.	111-42-2
EC No.	203-868-0
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/di-ethanol-amine-dea
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

Acute Tox. 4 (Oral); Skin Irrit. 2; Skin Sens. 1; Eye Dam. 1; Repr. 2; STOT RE 1; STOT RE 2



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

Signal Word	DANGER
GHS Pictograms	GHS05 (Corrosive) GHS07 (Harmful / Irritant) GHS08 (Health Hazard)

HAZARD STATEMENTS

- H302 — Harmful if swallowed
- H315 — Causes skin irritation
- H317 — May cause an allergic skin reaction
- H318 — Causes serious eye damage
- H351 — Suspected of causing cancer
- H361 — Suspected of damaging fertility or the unborn child
- H373 — May cause damage to organs through prolonged or repeated exposure

PRECAUTIONARY — PREVENTION

- P233 — Keep container tightly closed.
- 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 — RESPONSE / STORAGE / DISPOSAL

- 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.
- P312 — 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.



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

- 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
Di Ethanol Amine (DEA)	111-42-2	203-868-0	100	Acute Tox. 4 (Oral); Skin Irrit. 2; Skin Sens. 1; Eye Dam. 1; Repr. 2; STOT RE 1; STOT RE 2

Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Remove to fresh air immediately. If breathing is difficult, give oxygen. Keep at rest. Seek medical attention if symptoms develop or persist.
Skin Contact	Remove contaminated clothing immediately. Wash affected skin thoroughly with soap and water for at least 15 minutes. Seek medical attention if irritation or 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 immediate medical attention — product causes serious eye damage.
Ingestion	Rinse mouth. Do NOT induce vomiting. Give water to drink if conscious. Seek immediate medical advice / call a POISON CENTER.
Note to Physician	Treat symptomatically based on exposure route and product hazards. Reproductive toxicity and STOT RE classifications are present; inform treating physician.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Dry chemical, CO ₂ , foam, or water spray/mist. Use media appropriate to surrounding fire conditions.
Unsuitable Media	Avoid direct high-pressure water jet — may spread burning material.
Specific Hazards	Combustible liquid. Fire may produce toxic or irritating fumes (carbon oxides, nitrogen oxides, amine vapours). Containers may rupture under heat.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA). EN 469 / equivalent fire-fighter suit.



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

Special Procedures	Evacuate non-essential personnel. Cool fire-exposed containers with water spray. Prevent contaminated fire-run-off from entering drains and waterways.
---------------------------	--

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Isolate the area. Remove ignition sources. Wear full PPE as specified in Section 8. Ensure adequate ventilation. Avoid skin, eye, and clothing contact.
Environmental Precautions	Prevent entry into drains, sewers, soil, and watercourses. Notify relevant environmental authorities if significant release occurs.
Containment / Clean-up	Contain spill with sand, earth, or inert absorbent material. Collect into labelled, compatible containers for disposal through an approved waste contractor. Do not wash to drain.
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	Use adequate ventilation. Avoid skin, eye, and clothing contact. Avoid inhalation of vapours or mist. Keep away from heat, sparks, and open flames.
Hygiene	Wash hands thoroughly after handling. Remove contaminated clothing before reuse. Do not eat, drink, or smoke when using this product.
Storage Conditions	Store in original, tightly closed, compatible containers in a cool, dry, well-ventilated area away from direct sunlight.
Storage Temperature	Ambient (15–30°C) unless supplier instructions specify otherwise. Prevent freezing (melting point ~28°C — product may solidify at or below ambient).
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides); concentrated acids; halogens; aluminium chloride at elevated temperatures.
Segregation	Segregate from food, drink, animal feed, oxidisers, and incompatible chemicals. Inspect containers regularly for leakage or 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

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	DEA (CAS 111-42-2): ACGIH TLV-TWA 1 mg/m ³ (skin); NIOSH REL 3 ppm TWA. India / local OEL: use verified regional value if established; otherwise apply ALARA / good industrial hygiene practice. Supplier and regional confirmation required.
Engineering Controls	Use closed handling systems or local exhaust ventilation (LEV) to control vapours and mist below OEL. Use explosion-proof ventilation and grounding where applicable.
Respiratory Protection	Where ventilation is inadequate, use a NIOSH / EN approved respirator with organic vapour / ammonia cartridge. Use SCBA in emergencies or where OEL may be significantly exceeded.
Hand / Eye / Skin	Hands: chemical-resistant gloves (nitrile, butyl, or neoprene; select for breakthrough time and task duration). Eyes/Face: EN 166 / ANSI Z87.1 chemical splash goggles; add face shield for splash or corrosive risk. Body: chemical-resistant clothing/apron and safety footwear. Provide eyewash station and safety shower at the work location.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colourless to pale yellow viscous liquid or waxy solid (may appear solid near room temperature due to melting point ~28°C)
Odour	Mild, ammonia-like
Odour Threshold	Not established in reviewed public source
pH	Alkaline in aqueous solution (~11–12 at 1% w/v). Verify from supplier COA/SDS for specific grade.
Melting / Freezing Point	~28°C (82°F) [SOURCE CORRECTED: value was listed under Boiling Point in source document]
Boiling Point / Range	~268–271°C (516°F) at 760 mmHg [SOURCE CORRECTED: value was listed under Flash Point in source document]
Flash Point	~137–138°C (279°F) [SOURCE CORRECTED: value was listed under Auto-ignition Temperature in source document]
Auto-ignition Temperature	~662°C (1224°F) [SOURCE CORRECTED: value was listed under Flammability Limits in source document]
Flammability Limits	Lower: ~1.6% v/v; Upper: ~9.8% v/v (verify from supplier SDS)
Vapour Pressure	~5 mmHg at 138°C (280°F); <0.01 mmHg at 20°C (68°F) [SOURCE CORRECTED: value was listed under Vapour Density in source document]



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

	document]
Vapour Density (air = 1)	~3.65 (heavier than air; will sink) [SOURCE CORRECTED: value was listed under Relative Density in source document]
Relative Density	~1.095 at 28°C (denser than water; will sink) [SOURCE CORRECTED: value was listed under Solubility in Water in source document]
Solubility in Water	Miscible in all proportions (≥ 100 mg/mL at 14°C) [SOURCE CORRECTED: value was listed under Log Pow in source document]
Log Pow (Partition Coeff.)	-1.43 [SOURCE CORRECTED: value was listed under Evaporation Rate in source document]
Evaporation Rate	Low (less than 1 relative to n-BuAc; high boiling point). See supplier SDS for grade-specific value.
Viscosity	351.9 cP at 30°C; 53.85 cP at 60°C
VOC Content	Assess per applicable regional VOC regulations. See supplier SDS for grade-specific value.

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Avoid heat above flash point, ignition sources, contamination, and incompatible materials. Avoid exposure to light and moisture ingress for extended storage.
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), nitrogen oxides, and irritating or toxic amine fumes may be formed under fire conditions.
Hazardous Reactions	No hazardous polymerisation. No hazardous reactions under normal storage and handling conditions.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Acute Tox. 4 (Oral) — Harmful if swallowed (H302). LD_{50} (oral, rat): ~780 mg/kg (literature; verify from supplier SDS).
Acute Dermal Toxicity	No acute dermal classification identified in Section 2. See supplier SDS for numeric endpoint data.



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

Acute Inhalation Toxicity	No acute inhalation classification identified in Section 2. Vapours and mist may cause respiratory irritation. See supplier SDS.
Skin Irritation	Skin Irrit. 2 — Causes skin irritation (H315). Skin Sens. 1 — May cause allergic skin reaction (H317).
Eye Irritation	Eye Dam. 1 — Causes serious eye damage (H318). Seek immediate medical attention after eye contact.
Sensitisation	Skin Sens. 1 — May cause an allergic skin reaction (H317). Prevent skin contact; use impervious gloves.
Carcinogenicity	Repr. 2 / H351 — Suspected of causing cancer. Avoid inhalation and skin exposure; verify jurisdictional carcinogenicity status with supplier.
Mutagenicity	No mutagenicity classification identified in Section 2. See supplier SDS for further data.
Reproductive Toxicity	Repr. 2 — Suspected of damaging fertility or the unborn child (H361). Minimise exposure for reproductive-age workers.
STOT — Single Exposure	STOT SE classification not explicitly assigned in Section 2 of source. H370/H371 cited tentatively in source — verify with supplier classification data.
STOT — Repeated Exposure	STOT RE 1 / STOT RE 2 — May cause damage to organs through prolonged or repeated exposure (H373). Target organ: liver (verify from supplier SDS).

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	No acute or chronic aquatic classification identified in Section 2 from reviewed data. Numeric ecotoxicity data not universally verified — avoid release to aquatic environments.
Persistence / Degradability	DEA is reported to be readily biodegradable under aerobic conditions. Verify with supplier or ECHA data for the specific grade before regulatory submissions.
Bioaccumulation	Log Pow = -1.43; low bioaccumulation potential (BCF expected to be <100). Verify from supplier or ECHA.
Mobility in Soil	High water solubility and negative log Pow indicate high mobility in soil and potential for groundwater contamination. Prevent release to soil.
Other Adverse Effects	Avoid uncontrolled release to the environment. Manage releases and waste under applicable local environmental regulations.



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, state, and national regulations. Do not pour down drains or into watercourses.
Contaminated Packaging	Empty containers may retain hazardous residues; handle as hazardous until cleaned or disposed of through an approved contractor.
Indian Regulations	Follow applicable Hazardous Waste (Management, Handling and Transboundary Movement) Rules and State Pollution Control Board requirements. Assign EWC / waste code according to actual process and jurisdiction.

SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	UN 1760	UN 1760	UN 1760
Proper Shipping Name	Corrosive liquid, n.o.s. (Diethanolamine)	Corrosive liquid, n.o.s. (Diethanolamine)	Corrosive liquid, n.o.s. (Diethanolamine)
Class	8	8	8
Packing Group	III	III	III
Marine Pollutant	No	No	—

Transport classification is based on DEA (CAS 111-42-2) as a corrosive liquid per ADR/IMDG/IATA. Source document stated 'Not regulated' — this has been CORRECTED based on known GHS/transport classification for this substance. VERIFY with your freight forwarder and current ADR/IMDG/IATA editions before each shipment. UN-certified packaging required for international transport.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Classified and labelled in accordance with the GHS/CLP classification listed in Section 2. Observe REACH registration and downstream-user obligations where applicable.
OSHA (USA)	Prepared in OSHA HCS / HazCom 2012 aligned 16-section SDS format. Verify TSCA inventory / SNUR status before US import or distribution.
India	Observe applicable Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules 1989 (amended), Factories Act,



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

Environment Protection Act, Hazardous Waste Rules, and State
Pollution Control Board requirements.

Other Jurisdictions

China: apply GB/T SDS and classification requirements where
marketed. Canada: classify/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 export or import. GCC: apply applicable GHS-aligned
local requirements. Final market placement requires confirmation of
inventory status, local OELs, transport classification, waste code,
and applicable restrictions.

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

- H302 — Harmful if swallowed
- H315 — Causes skin irritation
- H317 — May cause an allergic skin reaction
- H318 — Causes serious eye damage
- H351 — Suspected of causing cancer
- H361 — Suspected of damaging fertility or the unborn child
- H373 — May cause damage to organs through prolonged or repeated exposure