



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)

Di Ethyl Phthalate (DEP) *SDS*

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

CAS 84-66-2 EC 201-550-6 SIGNAL WORD DANGER

GHS07

Harmful / Irritant

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

Product Name	Di Ethyl Phthalate (DEP)
Product Type	Diethyl phthalate — industrial chemical
Chemical Family	Phthalate ester
CAS No.	84-66-2
EC No.	201-550-6
Intended Use	Industrial / professional use as plasticizer, solvent, and fixative in coatings, resins, cosmetics, and pharmaceutical formulations.
Restrictions on Use	Industrial / professional use only. Confirm suitability for final application before use. Not for direct food-contact or consumer use without regulatory clearance.
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-ethyl-phthalate-dep
SDS Revision	July 2026
SDS Version	3.1



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SECTION 2 HAZARD IDENTIFICATION

Skin Irrit. 2 (H315) · Skin Sens. 1 (H317) · Eye Irrit. 2 (H319) · STOT SE 3 (H335, H336)

GHS Classification

Skin Irritation Category 2; Skin Sensitisation Category 1; Eye Irritation Category 2; STOT Single Exposure Category 3 (respiratory irritation, narcosis). H401 noted in source — verify aquatic toxicity classification with supplier; not reflected in pictogram selection pending confirmation.

Signal Word

WARNING

GHS Pictograms

GHS07 — Harmful / Irritant

HAZARD STATEMENTS

- H315 — Causes skin irritation
- H317 — May cause an allergic skin reaction
- H319 — Causes serious eye irritation (source listed H320; corrected to H319 for Eye Irrit. 2 classification — verify with supplier)
- H335 — May cause respiratory irritation
- H336 — May cause drowsiness or dizziness

PRECAUTIONARY — PREVENTION

- P233 — Keep container tightly closed.
- P260 — Do not breathe vapours or spray.
- P261 — Avoid breathing vapours.
- 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+P312 — IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
- P302+P352 — IF ON SKIN: Wash with plenty of water.
- P304+P340 — IF INHALED: Remove person to fresh air and keep comfortable for breathing.



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- 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.
- P321 — Specific treatment (see first aid measures in Section 4).
- P331 — Do NOT induce vomiting.
- P333+P313 — If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 — If eye irritation persists: Get medical advice/attention.
- P362+P364 — Take off contaminated clothing and wash before reuse.
- P403+P233 — Store in a well-ventilated place. Keep container tightly closed.
- 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
Di Ethyl Phthalate (DEP)	84-66-2	201- 550-6	100	Skin Irrit. 2 (H315); Skin Sens. 1 (H317); Eye Irrit. 2 (H319); STOT SE 3 (H335, H336)

Full text of H-statements listed in Section 16. EC No. 201-550-6 per ECHA registry.

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.
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 develop or 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 if irritation or redness persists.
Ingestion	Rinse mouth with water. Do not induce vomiting. If conscious, give small amounts of water. Seek immediate medical advice. Do not give anything by mouth to an unconscious person.



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Note to Physician	Treat symptomatically based on exposure route and clinical presentation. No specific antidote known. Supportive care indicated.
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SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Dry chemical powder, CO ₂ , foam, or water fog/spray. Use media appropriate to surrounding fire.
Unsuitable Media	Do not use a direct high-pressure water jet — may spread burning material.
Specific Hazards	DEP is combustible. On heating or combustion, may generate toxic or irritating fumes including carbon monoxide, carbon dioxide, and phthalate decomposition products. Containers may build pressure and rupture when exposed to heat.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA) independent of ambient air.
Special Procedures	Evacuate non-essential personnel. Cool fire-exposed containers with water spray. Prevent contaminated fire-fighting run-off from entering drains, watercourses, or soil.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Isolate the area. Eliminate ignition sources. Use full PPE as described in Section 8. Avoid skin, eye, and clothing contact. Ensure adequate ventilation.
Environmental Precautions	Prevent entry into drains, sewers, watercourses, and soil. Notify relevant authorities if significant environmental release occurs.
Containment / Clean-up	Contain spill using inert absorbent material (vermiculite, dry sand, earth). Collect into labelled, compatible, sealable containers. Do not flush to drain. Transfer to an approved waste contractor.
Reference to Sections	See Section 8 for PPE requirements, Section 13 for disposal guidance, and Section 15 for regulatory information.

SECTION 7 HANDLING AND STORAGE

Handling Precautions	Avoid contact with skin, eyes, and clothing. Avoid breathing vapours, mist, or spray. Use only in well-ventilated areas or with local exhaust ventilation. Keep containers tightly closed when not in use.
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Hygiene	Wash hands thoroughly after handling. Do not eat, drink, or smoke when using this product. Remove and launder contaminated clothing before reuse. Do not allow out of workplace.
Storage Conditions	Store in original, tightly closed compatible containers (e.g. mild steel, stainless steel, HDPE). Inspect containers regularly for leakage or damage. Keep away from incompatible materials.
Storage Temperature	Store at ambient temperature (15–30 °C) unless supplier instructions specify otherwise. Avoid prolonged storage above 40 °C.
Incompatible Materials	Strong oxidising agents (nitric acid, permanganates, peroxides), concentrated acids, halogens. Reactive with aluminium chloride under elevated temperature — not a concern under normal storage conditions.
Segregation	Segregate from food, drink, animal feed, oxidising agents, and incompatible chemicals.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	DEP (CAS 84–66–2): No universal OEL established across all jurisdictions. ACGIH TLV–TWA: 5 mg/m ³ (inhalable fraction). Verify applicable local/national OEL (India MSIHC Schedule, EU OEL, OSHA PEL, NIOSH REL) before work. Apply ALARA / good industrial hygiene where no OEL is set.
Engineering Controls	Use closed handling systems or local exhaust ventilation (LEV) for operations generating vapour, mist, or aerosol. Ensure general dilution ventilation meets applicable OEL. Use explosion–proof ventilation where required.
Respiratory Protection	Under normal conditions with adequate ventilation, respiratory protection may not be required. Where vapour/mist concentrations exceed or may exceed the OEL, use a NIOSH/EN 143–approved respirator fitted with an organic vapour (OV) cartridge or combination OV/P100 filter. Use SCBA for emergency or high–concentration situations.
Hand / Eye / Skin	Hands: Chemical–resistant gloves — nitrile (≥0.4 mm), butyl rubber, neoprene, or PVC. Select glove material and breakthrough time based on task duration and concentration. Eyes/Face: Chemical splash goggles (EN 166 / ANSI Z87.1); add full face shield for splash risk. Body: Chemical–resistant apron or coverall; safety footwear.



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Emergency: Provide eyewash station and emergency safety shower in the work area.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colourless to water-white, oily liquid
Odour	Practically odourless to very slight, faint aromatic odour
Odour Threshold	Not established
pH	Not applicable (non-aqueous liquid)
Melting / Freezing Point	–40.5 °C (–40.9 °F) [SOURCE NOTE: source text listed '27 °F' under Boiling Point — this has been corrected; 27 °F (–2.8 °C) is inconsistent with all published DEP data; NIOSH/NTP record –40.5 °C; verify with supplier COA]
Boiling Point / Range	298 °C (568 °F) at 760 mmHg (NTP, 1992) [SOURCE NOTE: source listed '568 °F' under Flash Point label — corrected here]
Flash Point	~161 °C (322 °F) — closed cup [SOURCE NOTE: source did not list a clearly labelled flash point value; 161 °C is the widely published value for DEP; verify with supplier COA before use in safety labelling]
Auto-ignition Temperature	~457 °C (855 °F) (USCG, 1999) [SOURCE NOTE: source listed '855 °F' under Vapour Pressure label — corrected here]
Flammability Limits	Not established in reviewed source; DEP has low vapour pressure at ambient temperature. Refer to supplier SDS for LEL/UEL if required.
Vapour Pressure	0.002 mmHg at 20 °C; 1 mmHg at 108.8 °C (227.8 °F); 5 mmHg at 140.7 °C (285.3 °F) (NTP, 1992) [SOURCE NOTE: source listed this data under Relative Density label — corrected here]
Vapour Density (air = 1)	7.66 (heavier than air; will sink) [SOURCE NOTE: source listed this value under Solubility and Log Pow labels — corrected here]
Relative Density	1.12 at 20 °C (68 °F) (USCG, 1999) — denser than water [SOURCE NOTE: source listed this value under Evaporation Rate label — corrected here]
Solubility in Water	<1 mg/mL at 19 °C (66 °F) (NTP, 1992) — slightly soluble [SOURCE NOTE: source listed this under Viscosity label — corrected here]
Log Pow (Partition Coeff.)	2.47 (peer-reviewed) [SOURCE NOTE: source listed this under VOC Content label — corrected here]
Evaporation Rate	Not established in reviewed source. Refer to supplier SDS.
Viscosity	~31.3 cSt at 0 °C (peer-reviewed) [SOURCE NOTE: value found in trailing text of source Section 9 — assigned to Viscosity]



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VOC Content	Assess per applicable regional VOC regulations (e.g. EU Directive 2004/42/EC; US EPA Method 24). Refer to supplier SDS for formulation-specific VOC content.
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SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Heat, open flames, ignition sources, contamination, and contact with incompatible materials. Avoid prolonged storage above 40 °C.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Concentrated acids and halogens. Reactive with aluminium chloride (AlCl ₃) under elevated temperature — not a concern in ambient blending or storage.
Hazardous Decomposition	Carbon monoxide, carbon dioxide, and irritating or toxic organic fumes may be formed in fire or upon thermal decomposition.
Hazardous Reactions	No hazardous polymerisation. No hazardous reactions under normal storage and handling conditions.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	DEP: LD ₅₀ (rat, oral) > 8,600 mg/kg (NTP / RTECS). Low acute oral toxicity. Classified based on Section 2 hazard identification.
Acute Dermal Toxicity	LD ₅₀ (rabbit, dermal) > 10,000 mg/kg. Low acute dermal toxicity. See Section 2 classification (Skin Irrit. 2).
Acute Inhalation Toxicity	No definitive LC ₅₀ identified in reviewed source data. Low vapour pressure at ambient temperature limits inhalation risk under normal conditions. STOT SE 3 classification applies (H335, H336).
Skin Irritation	Classified as Skin Irrit. 2 (H315) — causes skin irritation. Based on standard test data per GHS criteria.
Eye Irritation	Classified as Eye Irrit. 2 (H319) — causes serious eye irritation. Verify classification H319 vs H320 with current supplier SDS.
Sensitisation	Classified as Skin Sens. 1 (H317) — may cause an allergic skin reaction.
Carcinogenicity	Not classified as carcinogen under GHS/CLP, IARC, NTP, or OSHA HCS based on reviewed data. Verify with current regulatory listings.
Mutagenicity	Not classified as a mutagen under current GHS criteria based on reviewed data. Verify with supplier.



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SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	H401 (Acute Aquatic Tox. Cat. 1) was noted in the source classification — this requires verification; the source text also stated 'No aquatic classification identified from reviewed data.' Numeric ecotoxicity data (LC ₅₀ / EC ₅₀) not confirmed. Avoid release to aquatic environment pending clarification. [FLAG: Supplier must confirm whether H401 applies — see flags.]
Persistence / Degradability	DEP is considered readily biodegradable under aerobic conditions in some studies. However, do not assume ready biodegradability without verified test data. Refer to supplier or ECHA for formal study data.
Bioaccumulation	Log Kow 2.47 suggests moderate bioaccumulation potential. BCF data: refer to ECHA Chemical Safety Report or supplier SDS for verified values.
Mobility in Soil	Low solubility in water (<1 mg/mL) and moderate log Kow indicate limited mobility in soil. Adsorption to soil particles expected. Prevent release to soil and groundwater.
Other Adverse Effects	Avoid uncontrolled release to the environment. Manage releases and waste under applicable local environmental regulations (India: Environment Protection Act, 1986; Hazardous Waste Rules).

SECTION 13 DISPOSAL CONSIDERATIONS

Waste from Product	Dispose of contents through an authorised waste contractor in accordance with applicable local, state, and national regulations. Do not allow product to enter drains, watercourses, or soil.
Contaminated Packaging	Empty containers may retain hazardous residues. Handle as hazardous waste until triple-rinsed or reconditioned. Dispose via approved waste contractor or return to supplier if applicable.
Indian Regulations	Comply with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 (amended). Obtain Pollution Control Board (PCB) authorisation where required. Assign correct waste category per Schedule I/II/III before disposal.



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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	Not designated (pending H401 verification)	N/A

DEP does not currently appear in UN/ADR, IMDG, or IATA dangerous goods lists based on reviewed data and PubChem transport references. Use approved compatible packaging (e.g. UN-certified mild steel or HDPE drum) for shipment. Verify current transport classification with carrier before each international shipment — classification may change if H401 (aquatic tox.) is confirmed. ADR: No tunnel restriction code applicable. IMDG EmS: N/A.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Observe REACH Regulation (EC) No 1907/2006 and CLP Regulation (EC) No 1272/2008 requirements where applicable. Classified and labelled according to GHS/CLP classification in Section 2. DEP (CAS 84-66-2) is listed on ECHA's SVHC candidate list as a substance of very high concern (reproductive toxicant — check current ECHA SVHC list). EU Directive 2004/42/EC (VOC Directive) may apply to certain end-uses.
OSHA (USA)	Prepared in OSHA HCS/HazCom 2012 (29 CFR 1910.1200) aligned 16-section SDS format.
India	Observe applicable requirements under: Manufacture, Storage and Import of Hazardous Chemical (MSIHC) Rules, 1989 (amended); Factories Act, 1948; Environment Protection Act, 1986; Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016; applicable CPCB / SPCB guidelines.
Other Jurisdictions	Canada WHMIS/HPR: Classify and label under WHMIS 2015/HPR using Section 2 classification; Canadian sale may require bilingual SDS/label and ingredient disclosure. China (GB Standards): Use applicable GB/T SDS and classification requirements where marketed. Middle East/GCC: Observe applicable GHS-aligned local requirements. Australia (AICS): Check AICS inventory status before export or import. TSCA (USA): Verify TSCA inventory status and any



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SNUR requirements before US import or distribution; confirm with supplier.

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 — Rev 1.0 dated May 2026)
Key Sources	SPC product page; original SPC SDS template; consolidated SDS audit; UN GHS Rev.11 Annex 4; OSHA HCS Appendix D; EU REACH Annex II/CLP; Canada WHMIS/HPR; PubChem CID 2999, ECHA registry (CAS 84-66-2), NIOSH/NTP, USCG CHRIS, CAMEO, and public supplier SDS/transport references. Accessed May–June 2026.
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. Supreme Petro Chemicals shall not be liable for any loss, injury, or damage resulting from reliance on this information.

FULL TEXT OF H-STATEMENTS

- H315 — Causes skin irritation
- H317 — May cause an allergic skin reaction
- H319 — Causes serious eye irritation [corrected from H320 in source; verify with supplier — see flags]
- H335 — May cause respiratory irritation
- H336 — May cause drowsiness or dizziness
- H401 — Toxic to aquatic life [included from source; classification status unconfirmed — verify with supplier before labelling; see flags]