



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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SAFETY DATA SHEET (SDS)

Di Octyl Terephthalate (DOTP) *SDS*

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

CAS 6422-86-2

EC See ECHA / supplier SDS

SIGNAL WORD **DANGER**

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

Product Name	Di Octyl Terephthalate (DOTP)
Product Type	Di-(2-ethylhexyl) terephthalate — industrial chemical
Chemical Family	Phthalate ester / terephthalate plasticizer
CAS No.	6422-86-2
EC No.	See ECHA / supplier SDS
Intended Use	Plasticizer for PVC and polymer processing; industrial use.
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-octyl-terephthalate-dotp
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

Not classified as hazardous according to available GHS notifications (UN GHS Rev.11 / EU CLP / OSHA HCS). No GHS pictogram applies.

GHS Classification Not classified as hazardous according to available PubChem GHS notifications



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Signal Word	Not classified
GHS Pictograms	No GHS pictogram (Not classified)

HAZARD STATEMENTS

- None — substance is not classified as hazardous under GHS.

PRECAUTIONARY – PREVENTION

- 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

- 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.
- 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
Di Octyl Terephthalate (DOTP) — Di-(2-ethylhexyl) terephthalate	6422- 86-2	See ECHA / supplier SDS	100	Not classified as hazardous according to available PubChem GHS notifications

Percentages are by weight. Full text of H-statements listed in Section 16. No hazardous impurities or additives at classifiable concentrations identified.



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SECTION 4 FIRST AID MEASURES

Inhalation	Remove person to fresh air immediately. Keep at rest in a comfortable breathing position. Seek medical attention if symptoms (coughing, dizziness) develop or persist.
Skin Contact	Remove contaminated clothing. Wash affected area thoroughly with soap and water. 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 medical attention.
Ingestion	Rinse mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical advice immediately.
Note to Physician	Treat symptomatically based on exposure route and observed clinical presentation. No specific antidote known.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Dry chemical, CO ₂ , foam, or water spray appropriate for surrounding fire conditions.
Unsuitable Media	Avoid direct high-pressure water jet — may spread burning material.
Specific Hazards	High-boiling liquid; combustible at elevated temperatures. Thermal decomposition or fire may produce carbon oxides and irritating or toxic fumes. Containers may rupture when heated.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA). Evacuate non-essential personnel.
Special Procedures	Prevent contaminated firefighting run-off from entering drains or watercourses. Cool fire-exposed containers with water spray from a safe distance.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Isolate the release area. Eliminate ignition sources. Wear appropriate PPE as listed in Section 8. Ensure adequate ventilation.
Environmental Precautions	Prevent entry into drains, sewers, soil, and watercourses. Notify relevant environmental authorities if significant release occurs.



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Containment / Clean-up	Contain spill with inert absorbent material (sand, vermiculite, or dry earth). Collect into labelled, compatible, closed containers for disposal through an approved waste contractor. Do not flush to drain.
Reference to Sections	See Section 8 for PPE; Section 13 for disposal; Section 15 for regulatory information.

SECTION 7 HANDLING AND STORAGE

Handling Precautions	Use adequate ventilation. Avoid contact with skin, eyes, and clothing. Avoid breathing vapours or mist at elevated temperatures. Keep containers tightly closed when not in use.
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. Inspect containers regularly for leakage or damage. Keep away from heat and ignition sources.
Storage Temperature	Ambient temperature (approximately 15–35°C) unless supplier specifies otherwise. Avoid prolonged exposure to temperatures above 50°C.
Incompatible Materials	Strong oxidising agents (nitric acid, permanganates, peroxides, chlorine), concentrated acids, and halogens. See Section 10.
Segregation	Segregate from food, drink, animal feed, and incompatible chemicals.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	No specific OEL established for DOTP (CAS 6422-86-2) in OSHA, NIOSH, ACGIH, EU, UK, or India schedules at time of issue. Apply ALARA / good industrial hygiene practices. Verify with regional authority or supplier before use.
Engineering Controls	Use closed handling systems or local exhaust ventilation to control vapour, mist, or aerosol at source, particularly at elevated processing temperatures. Use explosion-proof ventilation where applicable.
Respiratory Protection	Respiratory protection not normally required under ambient conditions given very low vapour pressure. If ventilation is inadequate or misting occurs, use a NIOSH/EN-approved organic



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vapour cartridge respirator. Use SCBA for emergencies or confined spaces.

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

Appearance	Clear, colourless to pale-yellow viscous liquid at ambient temperature. See PubChem experimental properties for colour/turbidity details.
Odour	Mild, characteristic ester odour. See PubChem experimental properties.
Odour Threshold	Not established in reviewed public source data.
pH	Not applicable (non-aqueous liquid). For aqueous preparations, verify from supplier COA/SDS.
Melting / Freezing Point	–48°C (PEER REVIEWED — PubChem)
Boiling Point / Range	383°C (PEER REVIEWED — PubChem)
Flash Point	238°C (open cup) / 460°F (PEER REVIEWED — PubChem)
Auto-ignition Temperature	See supplier SDS for confirmed value.
Flammability Limits	See supplier SDS for confirmed LEL/UEL.
Vapour Pressure	0.0000214 mmHg at ambient temperature (PEER REVIEWED — PubChem)
Vapour Density (air = 1)	~13.5 (calculated from MW ≈ 390 g/mol; PEER REVIEWED — PubChem)
Relative Density	0.9825 at 20°C/20°C (PEER REVIEWED — PubChem)
Solubility in Water	4.0 mg/L at 20°C (PEER REVIEWED — PubChem)
Log Pow (Partition Coeff.)	See flag — source value not re-mapped; verify from supplier SDS or ECHA.
Evaporation Rate	See supplier SDS for grade-specific value (expected to be very low relative to n-butyl acetate).
Viscosity	63 cP at 25°C (PEER REVIEWED — PubChem)
VOC Content	Assess per applicable regional VOC regulations; low vapour pressure indicates minimal VOC contribution.



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SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Avoid heat, open ignition sources, and contamination with incompatible materials.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Avoid contact with concentrated acids and halogens. Reactive with aluminium chloride (AlCl ₃) under elevated temperature — not a concern in ambient blending or storage.
Hazardous Decomposition	Carbon oxides and irritating or toxic fumes may be formed in fire or thermal decomposition.
Hazardous Reactions	No hazardous reactions expected under normal storage and handling conditions.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Not classified. Numeric LD50 endpoint data requires supplier or validated test confirmation. No classification identified from available PubChem GHS notifications.
Acute Dermal Toxicity	Not classified. Endpoint data requires supplier or validated test confirmation.
Acute Inhalation Toxicity	Not classified. Endpoint data requires supplier or validated test confirmation. Very low vapour pressure minimises inhalation exposure under ambient conditions.
Skin Irritation	Not classified based on available data. May cause mild irritation on prolonged contact; confirm with supplier.
Eye Irritation	Not classified based on available data. Transient mild irritation possible; confirm with supplier.
Sensitisation	Not classified as a skin or respiratory sensitiser based on available data.
Carcinogenicity	Not classified. No carcinogen listing identified in reviewed IARC, NTP, ACGIH, or OSHA sources for DOTP.
Mutagenicity	Not classified. Genetic toxicity endpoint data requires supplier or validated test confirmation.



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SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	No acute aquatic toxicity classification identified from available PubChem GHS notifications. Numeric ecotoxicity data (LC50/EC50/ErC50) was not universally verified; avoid uncontrolled environmental release.
Persistence / Degradability	Biodegradability data not verified from reviewed public sources. Do not assume ready biodegradability; obtain supplier or ECHA data where required for registration or export.
Bioaccumulation	High log Kow suggests potential for bioaccumulation. Use verified log Kow / BCF data from supplier or ECHA where required.
Mobility in Soil	Low water solubility (4.0 mg/L) and high log Kow suggest low mobility in soil and potential adsorption to sediment. 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 discharge to drain, sewer, or watercourse.
Contaminated Packaging	Empty containers may retain residues; handle as potentially hazardous until cleaned or disposed of through an approved route. Do not reuse without decontamination.
Indian Regulations	Follow applicable Hazardous Wastes (Management, Handling and Transboundary Movement) Rules and State Pollution Control Board requirements. Assign waste code per actual process and local regulation.

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



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PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
Packing Group	Not regulated	Not regulated	Not regulated
Marine Pollutant	N/A	No	N/A

No UN transport entry found in PubChem transport data for DOTP (CAS 6422-86-2). Verify current ADR, IMDG, and IATA requirements with carrier before each shipment. Use approved, UN-certified, compatible containers for any international transport and label with product name.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Observe REACH requirements where applicable. Classified and labelled according to product-specific GHS/CLP classification in Section 2 (Not classified). Observe applicable EU workplace chemical, VOC, and environmental directives.
OSHA (USA)	Prepared in OSHA HCS/HazCom 2012-aligned 16-section SDS format. Verify TSCA inventory and SNUR status before US import or distribution.
India	Observe applicable Indian MSIHC Rules, Factories Act, Hazardous Wastes Rules, PCB requirements, and applicable storage / transport regulations.
Other Jurisdictions	Canada WHMIS 2015/HPR: classify and label using Section 2 classification; bilingual SDS/label may be required for Canadian sale. China: apply GB/T SDS and classification requirements where marketed. GCC/Middle East: apply GHS-aligned local requirements. Australia (AICS): verify inventory status before import or export. Final market placement requires confirmation of local OELs, transport class, waste codes, and 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)
Key Sources	SPC product page; PubChem (CAS 6422-86-2); ECHA; NIOSH/OSHA; CAMEO; public supplier SDS and transport references. Accessed June 2026.



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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

- None — Di Octyl Terephthalate (DOTP) is not classified as hazardous under GHS. No H-statements apply.