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SAFETY DATA SHEET (SDS)

Di Octyl Maleate (DOM) *SDS*

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

CAS **142-16-5** EC **See ECHA / supplier SDS for confirmed EC number**

SIGNAL WORD **DANGER**

GHS09
Environmental Hazard

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

Product Name	Di Octyl Maleate (DOM)
Product Type	Di-n-octyl maleate — industrial chemical
Chemical Family	Maleic acid diester (dialkyl maleate)
CAS No.	142-16-5
EC No.	See ECHA / supplier SDS for confirmed EC number
Intended Use	Industrial / professional use as plasticiser, reactive diluent, and chemical intermediate. Refer to SPC product page for application details.
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-maleate-dom
SDS Revision	July 2026
SDS Version	3.1

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SECTION 2 HAZARD IDENTIFICATION

GHS / CLP Classification: Aquatic Chronic 1 – H410 (Very toxic to aquatic life with long lasting effects). Not classified for other GHS hazard classes based on reviewed source data.

Signal Word	WARNING
GHS Pictograms	GHS09 — Environmental Hazard

HAZARD STATEMENTS

- H410 — Very toxic to aquatic life with long lasting effects

PRECAUTIONARY – PREVENTION

- P260 — Do not breathe vapours or spray.
- 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.
- 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.
- P391 — Collect spillage.
- 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 Maleate (DOM)	142-16-5	See ECHA / supplier SDS	100	Aquatic Chronic 1 — H410

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Substance is used as supplied (100% w/w). Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Remove person to fresh air and keep 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 develops or persists.
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 promptly.
Note to Physician	Treat symptomatically based on exposure route and product hazards. No specific antidote known.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	CO_2, dry chemical powder, foam, water spray. Use media appropriate to surrounding fire.
Unsuitable Media	High-pressure water jet — may spread burning material.
Specific Hazards	Thermal decomposition or combustion may produce carbon oxides and irritating or toxic fumes. Containers may rupture when exposed to heat. High flash point (≥185 °C) — not readily ignitable at ambient temperature.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA). EN 469 / NFPA 1 compliant fire suit.
Special Procedures	Evacuate non-essential personnel. Cool fire-exposed containers with water spray. Prevent fire-fighting water run-off from entering drains, sewers or watercourses.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Isolate spill area. Keep unnecessary personnel away. Use PPE specified in Section 8. Avoid breathing vapours or mist. Avoid skin

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	and eye contact.
Environmental Precautions	Prevent entry into drains, sewers, soil and surface watercourses. This material is very toxic to aquatic life; even small releases require containment. Report significant spills to relevant environmental authority.
Containment / Clean-up	Contain spill with sand, earth or inert absorbent. Collect into labelled, compatible closed containers for disposal by an approved waste contractor. Wash contaminated surfaces with detergent and water.
Reference to Sections	See Section 8 for PPE, Section 13 for disposal guidance, Section 15 for regulatory information.

SECTION 7 HANDLING AND STORAGE

Handling Precautions	Use adequate general and local exhaust ventilation. Avoid contact with skin, eyes, and clothing. Avoid inhaling vapours or mist. 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 (steel drum, HDPE). Keep in a cool, dry, well-ventilated area away from direct sunlight. Inspect containers regularly for leakage or damage.
Storage Temperature	Ambient temperature (15–35 °C) unless supplier instructions specify otherwise.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Avoid contact with concentrated acids, halogens, and reactive metals.
Segregation	Segregate from food, drink, animal feed, incompatible chemicals, and sources of ignition.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	No established OEL (8h TWA) or STEL found for CAS 142-16-5 in OSHA/NIOSH/ACGIH/EU/UK/India sources. Apply ALARA / good industrial hygiene practice. Confirm with supplier or regional authority.

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Engineering Controls	Use closed handling systems or local exhaust ventilation (LEV) to control vapour and mist. Ensure general workplace ventilation is adequate.
Respiratory Protection	Where ventilation is inadequate, use a NIOSH/EN-approved respirator with organic vapour cartridge (OV/P95 or OV/P100). Use SCBA for emergencies or high-concentration scenarios.
Hand / Eye / Skin	Hands: Chemical-resistant gloves (nitrile, butyl, neoprene, or PVC; select breakthrough time appropriate to task). Eyes: Chemical splash goggles (EN 166 / ANSI Z87.1); add face shield for splash risk. Body: Chemical-resistant apron or coverall; safety footwear. Skin: Wash exposed skin promptly after contact. Provide eyewash station and safety shower where product is handled.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear to pale yellow oily liquid
Odour	Mild, characteristic ester odour
Odour Threshold	Not established in reviewed public source data
pH	Not applicable (neat liquid, not aqueous)
Melting / Freezing Point	Not available from reviewed sources; expected < 0 °C (liquid at ambient) — confirm with supplier COA
Boiling Point / Range	~215–220 °C at 5 mmHg (high-boiling ester; atmospheric bp estimated >300 °C) — confirm with supplier
Flash Point	≥185 °C (closed cup, estimated; high-boiling ester — not readily flammable at ambient) — confirm with supplier
Auto-ignition Temperature	Not available from reviewed sources — confirm with supplier
Flammability Limits	Not established — confirm with supplier
Vapour Pressure	Very low at 20 °C (< 0.01 mmHg, typical for high-boiling diester) — confirm with supplier
Vapour Density (air = 1)	~14 (estimated from MW 340.5 g/mol; > 1, vapour heavier than air) — confirm with supplier
Relative Density	~0.93–0.94 g/cm³ at 20 °C (typical for dioctyl maleate) — confirm with supplier COA
Solubility in Water	Practically insoluble (typical for C8 dialkyl maleate esters) — confirm with supplier
Log Pow (Partition Coeff.)	~6.0–7.0 (estimated; high lipophilicity, consistent with Aquatic Chronic 1 classification) — confirm with supplier or ECHA

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Evaporation Rate	Very low (high boiling point) — confirm with supplier
Viscosity	Not available from reviewed sources — confirm with supplier
VOC Content	Low / negligible at ambient temperature due to high boiling point — assess per applicable regional VOC regulations

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Avoid heat, ignition sources, contamination and exposure to incompatible materials. Avoid prolonged storage at elevated temperatures.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Avoid contact with concentrated acids, halogens, and 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 fumes may be formed upon combustion or thermal decomposition.
Hazardous Reactions	No hazardous polymerisation. No hazardous reactions under normal storage and handling conditions.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	No specific LD_{50} data found for CAS 142-16-5 in reviewed sources. Based on structural analogy with dialkyl maleate esters, expected low acute oral toxicity. Confirm numeric endpoint with supplier.
Acute Dermal Toxicity	No specific LD_{50} data found. Confirm with supplier. Prolonged or repeated skin contact may cause irritation.
Acute Inhalation Toxicity	No LC_{50} data found. Low vapour pressure reduces inhalation risk at ambient temperature. Confirm with supplier.
Skin Irritation	May cause mild to moderate skin irritation on prolonged contact. Confirm with supplier test data.
Eye Irritation	May cause eye irritation. Rinse immediately with water if contact occurs. Confirm with supplier.
Sensitisation	No data found in reviewed sources. Confirm skin/respiratory sensitisation status with supplier.
Carcinogenicity	Not listed as carcinogen by IARC, NTP, or OSHA in reviewed sources. Confirm with supplier.

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Mutagenicity	No data found in reviewed sources indicating mutagenic potential. Confirm with supplier.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	Classified Aquatic Chronic 1 (H410) — very toxic to aquatic life with long lasting effects. Specific LC_{50}/EC_{50}/NOEC values not found in reviewed public sources; obtain from supplier or ECHA REACH dossier.
Persistence / Degradability	Biodegradability data not confirmed in reviewed sources. Do not assume ready biodegradability for a high-MW lipophilic ester. Confirm with supplier or OECD test data.
Bioaccumulation	High log Pow (~6–7, estimated) indicates significant bioaccumulation potential, consistent with Aquatic Chronic 1 classification. Confirm BCF with supplier or ECHA.
Mobility in Soil	Practically insoluble in water; expected to adsorb strongly to soil and sediment. Prevent release to soil and groundwater.
Other Adverse Effects	Avoid uncontrolled release to the environment. Manage all 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 or into watercourses.
Contaminated Packaging	Empty containers may retain product residues and should be handled as hazardous waste until professionally cleaned or disposed of. Return to supplier or dispose via approved waste contractor.
Indian Regulations	Follow the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 (as amended) and applicable State Pollution Control Board requirements.

SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	Not regulated	Not regulated (verify)	Not regulated

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PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
Proper Shipping Name	—	—	—
Class	—	—	—
Packing Group	—	—	—
Marine Pollutant	Verify — likely Yes (Aquatic Chronic 1)	Verify — likely Yes (Aquatic Chronic 1)	—

DOM is currently listed as 'Not regulated' in the source SDS. However, the Aquatic Chronic 1 classification (H410) may trigger marine pollutant designation under IMDG. Transport classification must be verified against current ADR 2025, IMDG Code (Amendment 42-24), and IATA DGR before shipment. Use UN-certified drums for international transport. Verify classification with supplier before consigning. DO NOT ship as 'not regulated' without written confirmation from a qualified DG specialist.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Observe REACH and CLP requirements where applicable. Classified and labelled according to GHS/CLP classification in Section 2. Observe applicable workplace chemical, VOC and environmental directives.
OSHA (USA)	Prepared in OSHA HCS / HazCom 2012 aligned 16-section SDS format.
India	Observe applicable Indian MSIHC Rules 1989 (as amended), Factories Act, Environment Protection Act, Hazardous Waste Management Rules 2016, and State Pollution Control Board requirements.
Other Jurisdictions	Canada WHMIS 2015 / HPR: Classify and label under WHMIS using Section 2 classification; Canadian sale may require bilingual SDS/label and ingredient disclosure. China: Use applicable GB/T SDS and classification requirements where marketed. Australia (AICS): Check inventory status before import/export. TSCA (USA): Verify TSCA inventory status before US import or distribution. Middle East/GCC: Observe applicable GHS-aligned local requirements. Final market placement requires confirmation of inventory status, local OELs, transport class, waste code and restrictions.

SECTION 16 OTHER INFORMATION

Prepared By	Supreme Petro Chemicals — Technical Department

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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; original SPC SDS template; consolidated SDS audit CSV dated 27 May 2026; UN GHS Rev.11 Annex 4; OSHA HCS Appendix D; EU REACH Annex II/CLP; Canada WHMIS/HPR; PubChem, ECHA, NIOSH/OSHA, CAMEO and public supplier SDS/transport references where available. Accessed 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.

FULL TEXT OF H-STATEMENTS

- H410 — Very toxic to aquatic life with long lasting effects