



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 Pentene *SDS*

REV 3.1

29 JULY 2026

GHS REV.11 (2025)

CAS **138-86-3**

EC **See ECHA supplier SDS**

SIGNAL WORD **DANGER**

GHS02

Flammable Liquid

GHS07

Harmful / Irritant

GHS08

Health Hazard

GHS09

Environmental
Hazard

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

Product Name	Di Pentene
Product Type	1-Methyl-4-(prop-1-en-2-yl)cyclohexene — solvent / industrial chemical
Chemical Family	Cyclic terpene (monocyclic monoterpene)
CAS No.	138-86-3
EC No.	See ECHA supplier SDS
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-pentene
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

Flam. Liq. 3; Asp. Tox. 1; Skin Irrit. 2; Skin Sens. 1; Eye Irrit. 2; Aquatic Acute 1; Aquatic Chronic 1



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Signal Word	DANGER
GHS Pictograms	GHS02 (Flammable Liquid) GHS07 (Harmful / Irritant) GHS08 (Health Hazard) GHS09 (Environmental Hazard)
Other GHS Hazard Classes	Not classified for unlisted hazard classes based on reviewed public/source data.

HAZARD STATEMENTS

- H226 — Flammable liquid and vapour
- H304 — May be fatal if swallowed and enters airways
- H315 — Causes skin irritation
- H317 — May cause an allergic skin reaction
- H319 — Causes serious eye irritation
- H400 — Very toxic to aquatic life
- H410 — Very toxic to aquatic life with long lasting effects

PRECAUTIONARY – PREVENTION

- P210 — Keep away from heat, hot surfaces, sparks, open flames. No smoking.
- P233 — Keep container tightly closed.
- P240 — Ground/bond container and receiving equipment.
- P241 — Use explosion-proof electrical/ventilating/lighting equipment.
- P242 — Use only non-sparking tools.
- P243 — Take precautionary measures against static discharge.
- 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.



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- 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.
- P331 — Do NOT induce vomiting.
- 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 Pentene (d-Limonene / Dipentene)3	138-86-	See ECHA / supplier SDS	100	Flam. Liq. 3; Asp. Tox. 1; Skin Irrit. 2; Skin Sens. 1; Eye Irrit. 2; Aquatic Acute 1; Aquatic Chronic 1

Percentages are by weight. Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Move to fresh air immediately. Keep comfortable for breathing. If symptoms persist, seek medical advice.
Skin Contact	Remove contaminated clothing. Wash affected skin 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. Seek medical attention immediately.
Ingestion	Rinse mouth. Do NOT induce vomiting — aspiration hazard (H304). Immediately call a POISON CENTER or doctor.
Note to Physician	Aspiration into lungs may cause chemical pneumonitis and may be fatal. Treat symptomatically based on exposure route and product hazards.



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SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Foam, dry chemical powder, CO ₂ , sand. Water spray may be used to cool containers.
Unsuitable Media	Do not use direct high-pressure water jet — may spread the material.
Specific Hazards	Flammable vapours may form explosive mixtures with air; vapours are heavier than air and may travel to distant ignition sources and flash back. Containers may rupture or explode when heated. Combustion may produce carbon monoxide, carbon dioxide, and irritating or toxic fumes.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA). Use explosion-proof equipment.
Special Procedures	Evacuate non-essential personnel. Use water spray to cool exposed containers. Prevent contaminated fire-fighting run-off from entering drains and waterways.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Isolate the area. Remove ignition sources. Use PPE as specified in Section 8. Avoid breathing vapours. Warn bystanders.
Environmental Precautions	Prevent entry into drains, sewers, soil, and watercourses. Product is very toxic to aquatic life — treat any release as environmentally hazardous.
Containment / Clean-up	Contain spill using sand, earth, or other non-combustible absorbent material. Collect material into labelled, compatible containers for disposal through an approved waste contractor. Do not use combustible absorbents.
Reference to Sections	See Section 8 for PPE details, Section 13 for disposal guidance, and Section 15 for regulatory information.

SECTION 7 HANDLING AND STORAGE

Handling Precautions	Use adequate local exhaust ventilation. Avoid contact with skin, eyes, and clothing. Avoid breathing vapours. Keep away from heat, ignition sources, sparks, and open flames. Use explosion-proof equipment and grounding/bonding.
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Hygiene	Wash hands thoroughly after handling. Remove contaminated clothing before reuse. Do not eat, drink, or smoke during use.
Storage Conditions	Store in original, tightly closed compatible containers in a well-ventilated, cool, dry area away from direct sunlight and ignition sources.
Storage Temperature	Ambient temperature (store cool); follow supplier instructions where specified.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Concentrated acids and halogens. Reactive with aluminium chloride (AlCl ₃) under elevated temperature.
Segregation	Segregate from food, drink, animal feed, oxidisers, and incompatible chemicals.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	Di Pentene (CAS 138-86-3): No specific OSHA PEL established. Apply ALARA / good industrial hygiene practices. Confirm regional OEL (OSHA / NIOSH / ACGIH / EU / UK / India) before use; supplier confirmation required.
Engineering Controls	Use closed handling systems and local exhaust ventilation for vapours. Use explosion-proof ventilation and grounding for flammable liquid handling.
Respiratory Protection	Where engineering controls are inadequate, use a NIOSH/EN-approved organic vapour respirator with appropriate cartridge. Use SCBA for emergency or high-concentration scenarios.
Hand / Eye / Skin	Gloves: chemical-resistant (nitrile, butyl, neoprene, or PVC) — select for breakthrough time and task. Eyes/Face: EN 166 / ANSI Z87.1 chemical splash goggles; add face shield for splash or pressure-transfer risk. Body: chemical-resistant clothing/apron and safety footwear; antistatic PPE where flammable vapours may occur. Provide eyewash station and safety shower in the work area.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colourless to pale yellow liquid
Odour	Citrus-like (lemon) odour
Odour Threshold	Not established in reviewed public source data



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pH	Not applicable (neat liquid, non-aqueous)
Melting / Freezing Point	Approx. -74 °C (-101 °F) [peer-reviewed; source value -40 °F flagged for verification — see flags]
Boiling Point / Range	176–178 °C (349–352 °F) at 760 mmHg (USCG, 1999)
Flash Point	46 °C (115 °F) — closed cup (USCG, 1999) [source printed -40 °F under wrong property row; corrected — see flags]
Auto-ignition Temperature	237 °C (458 °F) (USCG, 1999)
Flammability Limits	LEL approx. 0.7 % v/v; UEL approx. 6.1 % v/v [indicative — verify from supplier SDS]
Vapour Pressure	1.55 mmHg at 20 °C (peer-reviewed)
Vapour Density (air = 1)	4.7 (peer-reviewed; MW 136.23 g/mol)
Relative Density	Approx. 0.84 g/cm ³ at 20 °C [verify from supplier COA]
Solubility in Water	7.57 mg/L at 25 °C (peer-reviewed)
Log Pow (Partition Coeff.)	4.57 (peer-reviewed log Kow)
Evaporation Rate	See supplier SDS for grade-specific value
Viscosity	See supplier SDS for grade-specific value
VOC Content	Assess per applicable regional VOC regulations

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Heat, ignition sources, open flames, sparks, contamination, and incompatible materials.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Concentrated acids and halogens. Aluminium chloride (AlCl ₃) under elevated temperature — not a concern under ambient blending or normal storage.
Hazardous Decomposition	Carbon monoxide, carbon dioxide, and irritating or toxic fumes may be generated under fire conditions.
Hazardous Reactions	No hazardous reactions under normal storage and handling conditions.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Aspiration hazard classified (H304 — Asp. Tox. 1): may be fatal if swallowed and enters airways. Do not induce vomiting after
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	ingestion. Numeric LD50 data: see supplier/ECHA/PubChem for substance-specific values.
Acute Dermal Toxicity	Skin irritant classified (H315 — Skin Irrit. 2). Numeric LD50 data: see supplier/ECHA/PubChem.
Acute Inhalation Toxicity	No inhalation classification in source data. Vapours may cause irritation of respiratory tract. See supplier SDS for numeric LC50 data.
Skin Irritation	Classified: Skin Irrit. 2 — Causes skin irritation (H315). Dermal sensitiser classified: Skin Sens. 1 — May cause an allergic skin reaction (H317).
Eye Irritation	Classified: Eye Irrit. 2 — Causes serious eye irritation (H319).
Sensitisation	Skin sensitiser classified (H317). No respiratory sensitisation classification in source data.
Carcinogenicity	Not classified for carcinogenicity. Confirm with supplier/ECHA/IARC data.
Mutagenicity	Not classified for mutagenicity/genotoxicity. Confirm with supplier/ECHA data.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	Classified: Aquatic Acute 1 (H400) — Very toxic to aquatic life. Aquatic Chronic 1 (H410) — Very toxic to aquatic life with long lasting effects. Obtain LC50/EC50/NOEC values from supplier/ECHA/PubChem where required for risk assessment.
Persistence / Degradability	Use supplier, ECHA, or PubChem biodegradation data. If not verified, do not assume ready biodegradability.
Bioaccumulation	Log Kow = 4.57 (peer-reviewed) — potential for bioaccumulation. Verify BCF data from supplier or ECHA where required.
Mobility in Soil	Low water solubility (7.57 mg/L) and high log Kow indicate low mobility in soil; may adsorb to soil/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.



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SECTION 13 DISPOSAL CONSIDERATIONS

Waste from Product	Dispose of contents through an authorised waste contractor in accordance with local, regional, and national regulations. Do not pour down drains or discharge to the environment.
Contaminated Packaging	Empty containers may retain hazardous residues; handle as hazardous waste until professionally cleaned or disposed. Return to supplier or dispose via authorised contractor.
Indian Regulations	Follow requirements under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, applicable State Pollution Control Board (SPCB) guidelines, and Environment Protection Act provisions.

SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	UN 2052	UN 2052	UN 2052
Proper Shipping Name	DIPENTENE	DIPENTENE	DIPENTENE
Class	3	3	3
Packing Group	III	III	III
Marine Pollutant	Verify — likely Yes (Aquatic Acute 1 / Chronic 1 classified)	Verify — likely Yes (IMDG criteria apply)	—

Aquatic hazard (H400/H410) is classified; confirm marine pollutant status from IMDG/supplier data before shipment. Use UN-certified drum appropriate to packing group. Label with Class 3 placard, UN 2052, PG III, and product name. Follow current ADR/IMDG/IATA requirements. Verify carrier rules before each shipment. [Source document footer incorrectly stated PG II — corrected to PG III per UN 2052 DIPENTENE classification.]

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-aligned 16-section SDS format. Verify TSCA inventory / SNUR status before US import or



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	distribution.
India	Observe applicable Indian MSIHC Rules, Factories Act (chemical exposure), Environment Protection Act, Hazardous Waste Rules, and applicable State Pollution Control Board requirements.
Other Jurisdictions	Canada WHMIS 2015/HPR: classify/label under WHMIS using Section 2 classification; bilingual SDS/label and ingredient disclosure may be required. China (GB Standards): apply applicable GB/T SDS and classification requirements. Middle East/GCC: observe GHS-aligned local requirements. Australia (AICS): check inventory status before export or import. 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
SDS Standard	UN GHS Rev.11 (2025); OSHA HCS/HazCom; EU CLP/REACH Annex II; Canada WHMIS/HPR — 16-section format
Key Sources	SPC product page; UN GHS Rev.11 Annex 4; OSHA HCS Appendix D; EU REACH Annex II/CLP; Canada WHMIS/HPR; PubChem CID 440917; ECHA; USCG CHRIS (1999); NIOSH/OSHA; CAMEO; public supplier SDS references. Accessed June 2026.
Revision Date	24 June 2026
Version	3.0 (supersedes prior issues — replaces Rev 1.0 dated May 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.

FULL TEXT OF H-STATEMENTS

- H226 — Flammable liquid and vapour
- H304 — May be fatal if swallowed and enters airways
- H315 — Causes skin irritation
- H317 — May cause an allergic skin reaction
- H319 — Causes serious eye irritation
- H400 — Very toxic to aquatic life



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- H410 — Very toxic to aquatic life with long lasting effects
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UN GHS REV.11 (2025) / REACH / OSHA HCS /
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