



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)

Ortho Xylene *SDS*

CAS 95-47-6 EC 202-422-2 SIGNAL WORD DANGER

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

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	Ortho Xylene
Product Type	O-Xylene – solvent / industrial chemical
Chemical Family	Aromatic Hydrocarbon (Xylene isomer)
CAS No.	95-47-6
EC No.	202-422-2
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/ortho-xylene
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

Flam. Liq. 3; Asp. Tox. 1; Acute Tox. 4 (dermal, inhalation); Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; Aquatic Chronic 3

Signal Word DANGER



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GHS Pictograms

GHS02 (Flammable Liquid) | GHS07 (Harmful / Irritant) | GHS08
(Health Hazard) | GHS09 (Environmental Hazard)

HAZARD STATEMENTS

- H226 — Flammable liquid and vapour
- H304 — May be fatal if swallowed and enters airways
- H312 — Harmful in contact with skin
- H315 — Causes skin irritation
- H319 — Causes serious eye irritation
- H332 — Harmful if inhaled
- H335 — May cause respiratory irritation
- H336 — May cause drowsiness or dizziness
- H412 — Harmful to aquatic life with long lasting effects

PRECAUTIONARY — PREVENTION

- 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.
- 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.
- 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
Ortho Xylene	95-47-6	202-422-2	≥ 99 (100)	Flam. Liq. 3; Asp. Tox. 1; Acute Tox. 4 (dermal/inhal.); Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; Aquatic Chronic 3

Percentages are by weight (w/w). EC No. 202-422-2 confirmed from ECHA. Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Remove person immediately to fresh air. 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 develops or persists.
Eye Contact	Rinse cautiously with clean water for at least 15 minutes, holding eyelids open. Remove contact lenses if present and easy to do. Continue rinsing. Seek immediate medical attention.
Ingestion	Rinse mouth with water. Do NOT induce vomiting — aspiration hazard (H304). Seek immediate medical attention / call a POISON CENTER. Do not give anything by mouth to an unconscious person.
Note to Physician	Aspiration hazard present (H304); if vomiting occurs spontaneously, keep head low to minimise lung aspiration risk. Treat symptomatically based on exposure route and product hazards.



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SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Dry chemical powder, carbon dioxide (CO ₂), foam, sand or earth. Water spray or mist may be used to cool containers and disperse vapours.
Unsuitable Media	Direct high-pressure water jet — may spread burning liquid.
Specific Hazards	Flammable liquid and vapour (H226). Vapours may form explosive mixtures with air and travel to distant ignition sources, flashing back. Containers may rupture or explode when heated. Combustion produces carbon oxides and irritating / toxic fumes.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA). Use grounded / explosion-proof equipment.
Special Procedures	Evacuate non-essential personnel from the immediate area. Cool fire-exposed containers with water from a safe distance. Prevent contaminated fire-fighting run-off from entering drains, sewers or waterways.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Isolate the spill area. Eliminate all ignition sources (no smoking, flares, sparks or open flames). Wear appropriate PPE as specified in Section 8. Ventilate the area. Keep personnel upwind.
Environmental Precautions	Prevent entry into drains, sewers, watercourses and soil. Notify authorities if significant environmental release occurs.
Containment / Clean-up	Contain the spill with sand, earth or inert absorbent. Collect absorbed material into labelled, compatible closed containers. Avoid generating sparks during clean-up. Do not flush 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 only in well-ventilated areas or with local exhaust ventilation. Avoid contact with skin, eyes and clothing. Avoid breathing vapours. Bond and ground containers when transferring. Use explosion-proof equipment and non-sparking tools. Keep away from heat, sparks and open flames.
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Hygiene	Wash hands thoroughly after handling. Remove and wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.
Storage Conditions	Store in a cool, dry, well-ventilated location away from heat sources and direct sunlight. Keep container tightly closed. Store in original, tightly closed compatible containers. Inspect containers regularly for leakage or damage.
Storage Temperature	Ambient (below 25°C preferred). Keep cool.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides), concentrated acids and halogens. Reactive with aluminium chloride (AlCl ₃) under elevated temperatures.
Segregation	Segregate from food, drink, animal feed and incompatible chemicals. Store locked up (P405).

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	Ortho Xylene (CAS 95–47–6): ACGIH TLV–TWA 100 ppm (8 h); OSHA PEL 100 ppm TWA; UK WEL 50 ppm TWA / 100 ppm STEL. India: CPCB / factory inspector guidelines — confirm current local limit. Use ALARA / good industrial hygiene where no specific limit is established.
Engineering Controls	Use closed handling systems and local exhaust ventilation (LEV) to control vapour levels below occupational exposure limits. Use explosion-proof ventilation and earthed equipment for flammable liquids.
Respiratory Protection	Where LEV is inadequate or for emergency use: NIOSH/EN-approved organic vapour respirator cartridge (OV). Use SCBA (self-contained breathing apparatus) for spills, confined spaces or emergency response.
Hand / Eye / Skin	Hands: chemical-resistant gloves (nitrile ≥ 0.38 mm, butyl rubber or neoprene) — check breakthrough time for the specific task. Eyes/Face: EN 166 / ANSI Z87.1 chemical splash goggles; add face shield for splash risk. Body: chemical-resistant apron or coverall; antistatic footwear where flammable vapours may be present. Provide emergency eyewash and safety shower accessible within 10 seconds of the work area.



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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colourless liquid
Odour	Sweet, aromatic (characteristic xylene odour)
Odour Threshold	Not established in reviewed public source
pH	Not applicable (non-aqueous liquid)
Melting / Freezing Point	-25°C to -22°C (-13°F to -9°F) (NTP, 1992)
Boiling Point / Range	143°C to 145°C (289°F to 293°F) at 760 mmHg (NTP, 1992)
Flash Point	17°C (63°F) – closed cup (NTP, 1992)
Auto-ignition Temperature	465°C (869°F) (USCG, 1999)
Flammability Limits	LEL 1.0 % v/v; UEL 7.6 % v/v – verify against current experimental data (PubChem)
Vapour Pressure	10 mmHg at 32°C (89.8°F) (NTP, 1992)
Vapour Density (air = 1)	3.66 – heavier than air; vapours will sink and accumulate at low levels (NTP, 1992)
Relative Density	0.88 at 20°C (68°F) – less dense than water; will float (USCG, 1999)
Solubility in Water	Insoluble (approximately 175 mg/L at 25°C) (NTP, 1992)
Log Pow (Partition Coeff.)	3.12 (peer-reviewed experimental value)
Evaporation Rate	See supplier SDS for grade-specific value (relative to n-butyl acetate = 1)
Viscosity	0.76 mPa·s at 25°C / 0.81 mPa·s at 20°C (peer-reviewed)
VOC Content	Assess per applicable regional VOC regulations; o-Xylene is a VOC.

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Heat, sparks, open flames, ignition sources, static electricity, contamination with incompatible materials, sunlight.
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 under ambient blending or storage conditions.
Hazardous Decomposition	Carbon monoxide (CO), carbon dioxide (CO ₂) and irritating or toxic organic fumes may be formed during combustion or fire.
Hazardous Reactions	No hazardous polymerisation. No hazardous reactions under normal storage and handling conditions when used as directed.



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SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Rat LD ₅₀ : ~4,300 mg/kg (low acute oral toxicity at typical handling quantities; H304 aspiration hazard is the primary ingestion risk — do not induce vomiting).
Acute Dermal Toxicity	Classified Acute Tox. 4 (dermal) — H312: Harmful in contact with skin. Numeric LD ₅₀ requires supplier/test confirmation.
Acute Inhalation Toxicity	Classified Acute Tox. 4 (inhalation) — H332: Harmful if inhaled. Numeric LC ₅₀ requires supplier/test confirmation.
Skin Irritation	Classified Skin Irrit. 2 — H315: Causes skin irritation. Repeated or prolonged contact may cause defatting and dermatitis.
Eye Irritation	Classified Eye Irrit. 2 — H319: Causes serious eye irritation.
Sensitisation	Not classified as a skin or respiratory sensitiser based on available data.
Carcinogenicity	Not classified as a carcinogen (IARC Group 3 — not classifiable; NTP / OSHA not listed). Confirm with supplier SDS for specific grade.
Mutagenicity	Not classified as a mutagen based on available data. Numeric endpoint confirmation requires supplier/test data.
Aspiration Hazard	Classified Asp. Tox. 1 — H304: May be fatal if swallowed and enters airways. Do NOT induce vomiting.
STOT — Single Exposure	Classified STOT SE 3 — H335: May cause respiratory irritation; H336: May cause drowsiness or dizziness (CNS depression at high vapour concentrations).

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	Classified Aquatic Chronic 3 — H412: Harmful to aquatic life with long lasting effects. Acute toxicity data: Fish LC ₅₀ (96 h) and Daphnia EC ₅₀ values available from ECHA/PubChem — obtain current values from supplier SDS before regulatory filing.
Persistence / Degradability	Ortho-Xylene is biodegradable under aerobic conditions but may persist in anaerobic groundwater environments. Do not assume ready biodegradability without verified test data.
Bioaccumulation	Log Kow = 3.12; moderate bioaccumulation potential. BCF data — obtain from supplier or ECHA.
Mobility in Soil	Low water solubility limits mobility; however, hydrocarbon contamination of soil and groundwater is possible. Prevent release



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to soil.

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 hazardous waste contractor in accordance with local, state and national regulations. Do not pour down drains or discharge to the environment.

Contaminated Packaging

Empty containers may retain product residues and vapours; handle as hazardous waste until thoroughly cleaned or disposed of through an approved contractor. Decontaminate or recycle where permitted.

Indian Regulations

Follow the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 (as amended) and applicable State Pollution Control Board (SPCB) requirements. Assign waste code per actual process and local regulation.

SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	UN 1307	UN 1307	UN 1307
Proper Shipping Name	XYLENES	XYLENES	Xylenes
Class	3	3	3
Packing Group	III	III	III
Marine Pollutant	No	No	N/A

UN 1307 PG III applies to o-Xylene (flash point 17°C, Class 3 flammable liquid). Packaging: UN-certified drum or container appropriate for Class 3, PG III. Confirm current carrier rules, ADR/IMDG/IATA edition requirements, and EmS (Sea: F-E, S-D) before each shipment. Tunnel restriction code (D/E) applies under ADR.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP

Subject to REACH regulation (EC) No 1907/2006. Classified and labelled in accordance with CLP Regulation (EC) No 1272/2008 as listed in Section 2. Check ECHA C&L inventory and SVHC candidate list. Observe applicable VOC and workplace chemical directive requirements.



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OSHA (USA)	Prepared in OSHA HCS 2012 / HazCom 29 CFR 1910.1200 aligned 16-section SDS format. Verify TSCA inventory status before US import or distribution.
India	Observe applicable requirements under the Manufacture, Storage and Import of Hazardous Chemical (MSIHC) Rules, 1989 (as amended); Hazardous Waste Rules, 2016; Factories Act; and applicable State Pollution Control Board regulations.
Other Jurisdictions	Canada WHMIS 2015 / HPR: classify and label using Section 2 classification; Canadian sale may require bilingual SDS/label and ingredient disclosure. Australia (AICS): check inventory status before import/export. China GB Standards: apply GB/T SDS and classification requirements where marketed. 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
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. Supreme Petro Chemicals shall not be liable for any loss, injury, or damage resulting from reliance on this information.

FULL TEXT OF H-STATEMENTS

- H226 — Flammable liquid and vapour
- H304 — May be fatal if swallowed and enters airways
- H312 — Harmful in contact with skin
- H315 — Causes skin irritation
- H319 — Causes serious eye irritation



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- H332 — Harmful if inhaled
-
- H335 — May cause respiratory irritation
-
- H336 — May cause drowsiness or dizziness
-
- H412 — Harmful to aquatic life with long lasting effects
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