SUPREME PETRO CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS · SINCE 1997

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SAFETY DATA SHEET (SDS)

Meta Xylene (m-Xylene) *SDS*

REV 1.0
8 NOVEMBER 2026
GHS REV.11 (2025)

CAS **108-38-3** EC **203-576-3** SIGNAL WORD **DANGER**

GHS02
Flammable Liquid

GHS07
Harmful / Irritant

GHS08
Health Hazard

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

Product Name	Meta Xylene (m-Xylene)
Product Type	Aromatic hydrocarbon solvent (substance)
Chemical Family	Aromatic hydrocarbon — xylene isomer (1,3-dimethylbenzene)
CAS No.	108-38-3
EC No.	203-576-3
EC Index No.	601-022-00-9
Grade	High-purity, ≥ 99.0% m-xylene (wt)
Intended Use	Solvent and chemical intermediate (manufacture of other substances).
Restrictions on Use	Industrial / professional use only.
Supplier	Supreme Petro Chemicals
Address	No. 145, 1st Floor, Raja Muthiah Road, Periyamet, Chennai – 600003, India
Emergency Contact	Raj Kumar — +91 86675 84068 · Sudarshan — +91 81979 47045
Email	admin@supremepetrochemicals.com
Product Page	https://www.supremepetrochemicals.com/products/meta-xylene
SDS Revision	November 2026
SDS Version	1.0

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SECTION 2 HAZARD IDENTIFICATION

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

Flammable Liquids	Category 3 — H226: Flammable liquid and vapour
Acute Toxicity (Dermal)	Category 4 — H312: Harmful in contact with skin
Acute Toxicity (Inhalation)	Category 4 — H332: Harmful if inhaled
Skin Corrosion / Irritation	Category 2 — H315: Causes skin irritation
Serious Eye Damage / Irritation	Category 2 — H319: Causes serious eye irritation
STOT — Single Exposure	Category 3 — H335: May cause respiratory irritation
Aspiration Hazard	Category 1 — H304: May be fatal if swallowed and enters airways
Hazardous to the Aquatic Environment (Chronic)	Category 3 — H412: Harmful to aquatic life with long lasting effects
Signal Word	DANGER
GHS Pictograms	GHS02 (Flame) · GHS07 (Exclamation mark) · GHS08 (Health hazard)
Basis of Classification	H226, H312, H332 and H315 are the harmonised classification of xylene (CLP Annex VI, Index 601-022-00-9). H319, H335, H304 and H412 are supplier classifications published for m-xylene (CDH Fine Chemical SDS; a second supplier SDS) and are included for safety.

HAZARD STATEMENTS

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

PRECAUTIONARY — PREVENTION

- P210 — Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P261 — Avoid breathing vapours.
- P273 — Avoid release to the environment.

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- P280 — Wear protective gloves / protective clothing / eye protection / face protection.

PRECAUTIONARY — RESPONSE / STORAGE / DISPOSAL

- P301 + P310 — IF SWALLOWED: Immediately call a POISON CENTER / doctor.
- P331 — Do NOT induce vomiting.
- P302 + P352 — IF ON SKIN: Wash with plenty of water.
- 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.
- Storage: keep container tightly closed in a cool, well-ventilated, fireproof place (see Section 7).
- Disposal: dispose of contents / container to a licensed collector in accordance with local, regional and national regulations (see Section 13).

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	EC NO.	% W/W	GHS CLASSIFICATION
m-Xylene (1,3-dimethylbenzene)	108-38-3	203-576-3	≥ 99.0	Flam. Liq. 3; Acute Tox. 4 (dermal, inhalation); Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; Asp. Tox. 1; Aquatic Chronic 3

Mono-constituent substance. Per SPC TDS the remainder is ethylbenzene (0.5% max), o-xylene + p-xylene (1.0% max) and non-aromatics (1.0% max). Full text of H-statements in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. Call a poison center or doctor if you feel unwell.
Skin Contact	Take off immediately all contaminated clothing. Wash off with soap and plenty of water / rinse skin with water or shower. If skin irritation occurs, get medical advice.
Eye Contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. If eye irritation persists, get medical advice.

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Ingestion	Do NOT induce vomiting (aspiration hazard). Never give anything by mouth to an unconscious person. Rinse mouth with water. Call a poison center or doctor immediately.
Symptoms	Harmful if inhaled or in contact with skin; skin irritation; respiratory irritation; central nervous system depression, headache, nausea, dizziness; liver and kidney injury possible on overexposure.
Note to Physician	Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable Media	Do not use a heavy water stream.
Specific Hazards	Flammable liquid and vapour (flash point 25 °C, closed cup). May form flammable / explosive vapour-air mixtures. Vapours are heavier than air and can accumulate in low areas.
Hazardous Combustion Products	Carbon oxides; toxic fumes may be released.
Protective Equipment	Wear self-contained breathing apparatus and complete protective clothing. Do not enter the fire area without proper protective equipment.
Special Procedures	Fight fire from a safe distance and protected location. Use water spray to cool unopened containers.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Ventilate the spillage area. Evacuate unnecessary personnel. Remove all sources of ignition — no open flames, no sparks, no smoking. Avoid contact with skin, eyes and clothing; avoid breathing vapours. Wear personal protective equipment (Section 8).
Environmental Precautions	Avoid release to the environment. Do not let product enter drains. Notify authorities if product enters sewers or public waters.
Containment / Clean-up	Stop leak if safe to do so. Contain with dikes or absorbents. Absorb with sand, earth, clay or diatomaceous earth and collect in suitable containers for disposal. Use non-sparking tools.
Reference to Sections	See Section 8 for PPE and Section 13 for disposal.

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SECTION 7 HANDLING AND STORAGE

Handling Precautions	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground / bond container and receiving equipment; use explosion-proof equipment and non-sparking tools; take precautionary measures against static discharge. Avoid contact with skin and eyes and avoid breathing vapour. Use only outdoors or in a well-ventilated area. Handle empty containers with care because residual vapours are flammable.
Hygiene	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.
Storage Conditions	Keep container tightly closed. Store in a cool, well-ventilated, fireproof place, away from heat sources. Keep containers upright and resealed after opening. Storage class: flammable liquids.
Incompatible Materials	Strong oxidising agents; heat sources.
Packaging (per SPC TDS)	ISO tank / bulk; drums on enquiry.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	EU (Directive 2000/39/EC) m-xylene: 50 ppm (221 mg/m³) 8-h TWA; 100 ppm (442 mg/m³) STEL; skin notation. UK (EH40) xylene: 50 ppm (220 mg/m³) 8-h; 100 ppm (441 mg/m³) 15-min. OSHA PEL (Z-1): 100 ppm (435 mg/m³). ACGIH TLV: 100 ppm TWA; 150 ppm STEL. India: No data available (no limit in reviewed sources).
Engineering Controls	Ensure good ventilation of the work station; use local exhaust and explosion-proof ventilation where vapour may accumulate. Provide eyewash station and safety shower.
Eye / Face Protection	Chemical splash goggles or safety glasses; face shield where splash is possible (EN 166 / NIOSH-approved).
Hand / Skin Protection	Chemical-resistant gloves, inspected before use. Flame-retardant, antistatic protective clothing selected to the concentration and amount handled.
Respiratory Protection	Where risk assessment shows air-purifying respirators are appropriate, use a respirator with ABEK (EN 14387) cartridges; use a

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	full-face supplied-air respirator where it is the sole means of protection.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colourless liquid.
Odour	Sweet, aromatic.
Odour Threshold	No data available
pH	No data available
Melting / Freezing Point	-48 °C
Boiling Point / Range	138 – 139 °C
Flash Point	25 °C (closed cup); 27 °C reported by a second supplier SDS
Evaporation Rate	0.7 (n-butyl acetate = 1); 9.2 (ether = 1)
Flammability	Flammable liquid and vapour.
Lower / Upper Explosive Limit	1.1 % (v/v) / 7 % (v/v)
Vapour Pressure	6.0 – 9 mmHg at 20 °C
Vapour Density (air = 1)	3.66
Relative Density	0.864 g/cm³ at 20 °C (SPC TDS spec: specific gravity 0.862 – 0.866 at 20/20 °C)
Solubility	Water: immiscible. Ethanol and ether: miscible.
Log Pow (n-octanol / water)	3.12 – 3.2 at 20 °C
Auto-ignition Temperature	527 – 528 °C
Decomposition Temperature	No data available
Viscosity	Dynamic 0.62 mPa·s (cP) at 20 °C; kinematic 0.718 mm²/s
Refractive Index	1.4973 at 20 °C
Molecular Weight	106.17 g/mol (C_8H_{10})
Explosive / Oxidising Properties	No data available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	Flammable liquid and vapour.
Chemical Stability	Stable under recommended storage conditions.
Conditions to Avoid	Open flame, heat, sparks, hot surfaces, direct sunlight, overheating, static discharge. Eliminate all sources of ignition.
Incompatible Materials	Strong oxidising agents.
Hazardous Decomposition	Carbon oxides under fire conditions; may release flammable gases.

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Hazardous Reactions	No dangerous reactions known under normal conditions of use. Hazardous polymerisation: No data available.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	LD_{50} (rat, oral, male) = 6,602 mg/kg (OECD 401). Not classified.
Acute Dermal Toxicity	LD_{50} (rabbit, dermal) = 12,126 mg/kg. Classified Acute Tox. 4 (H312) under CLP Annex VI.
Acute Inhalation Toxicity	LC_{50} (rat, 4 h) = 6,700 ppm. Classified Acute Tox. 4 (H332).
Skin Irritation	Causes skin irritation (rabbit, 24 h).
Eye Irritation	Severe eye irritation in rabbit (24 h); classified Eye Irrit. 2 by suppliers.
Sensitisation	Does not cause skin sensitisation (mouse, OECD 429).
Germ Cell Mutagenicity	No data available
Carcinogenicity	IARC Group 3 — not classifiable as to carcinogenicity to humans.
Reproductive Toxicity	Supplier data state that overexposure may cause reproductive disorder(s) based on tests with laboratory animals; not classified under CLP.
STOT — Single / Repeated Exposure	Single: may cause respiratory irritation (Category 3). Repeated: No data available.
Aspiration Hazard	May be fatal if swallowed and enters airways (Category 1).
Other Effects	Central nervous system depression and narcosis; headache, nausea, vomiting; dermatitis; lung irritation; liver and kidney injury may occur.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	Fish: LC_{50} (96 h) = 11.23 mg/L (OECD 203). Daphnia: No data available. Algae: No data available. Classified Aquatic Chronic 3 (H412) by suppliers.
Persistence / Degradability	Rapidly degradable.
Bioaccumulation	Accumulation in organisms is not expected, based on the n-octanol / water partition coefficient (log Pow 3.12 – 3.2).
Mobility in Soil	No data available
PBT / vPvB	Contains no PBT or vPvB substance at 0.1% or above.
Other Adverse Effects	Harmful to aquatic life with long lasting effects. Avoid release to the environment.

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SECTION 13 DISPOSAL CONSIDERATIONS

Waste from Product	Offer surplus and non-recyclable material to a licensed disposal company; burn in a chemical incinerator equipped with an afterburner and scrubber (highly flammable). Disposal must be in accordance with official regulations.
Contaminated Packaging	Dispose of as unused product. Do not re-use empty containers; residual vapours are flammable and may accumulate in the container.
Indian Regulations	Manage disposal under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and applicable SPCB / CPCB requirements.

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	No

Environmental hazard (ADR): no. Verify current carrier rules and consignment requirements before shipment.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	EC No. 203-576-3; Index No. 601-022-00-9 (CLP Annex VI harmonised entry for xylene). SDS content follows Regulation (EC) 1907/2006. Supplier SDS: a chemical safety assessment was not carried out for the laboratory-grade product.
India	Observe applicable Indian regulations, including the Manufacture, Storage and Import of Hazardous Chemical Rules, 1989, the Environment (Protection) Act, 1986, the Factories Act, 1948 and the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. Confirm current occupational exposure limits with the relevant State / Central authority.

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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	8 November 2026
Version	1.0 (new issue)
Key Sources	Central Drug House (CDH) m-Xylene SDS CAS 108-38-3; Loba Chemie "m-Xylene for synthesis" SDS ref. 6498D (rev. 4/2/2024); Petrochemical Corporation of Singapore xylene SDS (rev. 6, 9 Mar 2022); supplier EC SDS MGCE-073 for m-xylene (v1.0, 20.05.2019); SPC TDS SPC-TDS-ARO-006 (Mitsubishi Gas Chemical specification). Full list in scripts/sds-batch/sources-2026-11.md.
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 is a trader and distributor, not the manufacturer.

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
- H332 — Harmful if inhaled
- H335 — May cause respiratory irritation
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