



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)

Thinners *SDS*

REV 3.1

29 JULY 2026

GHS REV.11 (2025)

CAS 108-88-3 (Toluene; principal component)

EC 203-625-9

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	Thinners
Product Type	Thinners — solvent / industrial chemical
Chemical Family	Thinners (aromatic hydrocarbon — principal component Toluene)
CAS No.	108-88-3 (Toluene; principal component)
EC No.	203-625-9
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/thinners
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

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

Signal Word **DANGER**



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GHS Pictograms

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

HAZARD STATEMENTS

- H225 — Highly flammable liquid and vapour
- H304 — May be fatal if swallowed and enters airways
- H315 — Causes skin irritation
- H332 — Harmful if inhaled
- H335 — May cause respiratory irritation
- H336 — May cause drowsiness or dizziness
- H361 — Suspected of damaging fertility or the unborn child
- H373 — May cause damage to organs through prolonged or repeated exposure
- 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.
- P312 — Call a POISON CENTER or doctor if you feel unwell.
- P331 — Do NOT induce vomiting.
- 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
Toluene (principal component)	108-88-3	203-625-9	~100 (verify with supplier formulation)	Flam. Liq. 2; Asp. Tox. 1; Skin Irrit. 2; Acute Tox. 4 (inh.); STOT SE 3; Repr. 2; STOT RE 2; Aquatic Chronic 3

Percentages are by volume. Actual formulation may contain other aromatic hydrocarbons; obtain supplier COA/SDS for exact composition. Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Remove person to fresh air immediately. 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 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. Do NOT induce vomiting — aspiration hazard (H304). Seek immediate medical attention or call a POISON CENTER.
Note to Physician	Treat symptomatically. Aspiration into lungs may cause chemical pneumonitis. Reproductive toxicity concern (H361) — inform treating physician of exposure duration and route.



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SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Dry chemical powder, CO ₂ , foam, or sand. Water spray/mist may be used to cool containers.
Unsuitable Media	Direct high-pressure water jet — may spread burning liquid.
Specific Hazards	Highly flammable (Flash Point 4°C). Flammable vapours may travel to ignition sources and flash back. Containers may rupture/BLEVE when heated. Combustion produces carbon oxides and irritating fumes.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA). Evacuate non-essential personnel.
Special Procedures	Cool exposed containers with water spray. Prevent contaminated firefighting run-off from entering drains and waterways. Use grounded/explosion-proof equipment.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Isolate area. Remove ignition sources. Use PPE specified in Section 8. Avoid breathing vapours. Ventilate area.
Environmental Precautions	Prevent entry into drains, sewers, soil, and watercourses. Notify relevant authorities if significant quantities are released to environment.
Containment / Clean-up	Contain spill with inert absorbent material (sand, earth, vermiculite). Collect into labelled, compatible containers for disposal through an approved waste contractor. Do not flush to sewer.
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 adequate local exhaust ventilation. Avoid contact with skin, eyes, and clothing. Avoid inhalation of vapours. Keep away from heat, sparks, open flames, and hot surfaces. Ground/bond containers when transferring.
Hygiene	Wash hands thoroughly after handling. Remove contaminated clothing before reuse. Do not eat, drink, or smoke when using this product.



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Storage Conditions	Store in original, tightly closed, compatible containers in a cool, dry, well-ventilated area away from heat and direct sunlight. Use explosion-proof storage.
Storage Temperature	Ambient (below 30°C recommended); keep cool.
Incompatible Materials	Strong oxidising agents (nitric acid, permanganates, peroxides, chlorine). Concentrated acids, halogens. Reactive with aluminium chloride at elevated temperature.
Segregation	Segregate from food, drink, animal feed, and incompatible chemicals. Store away from ignition sources and oxidisers.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	Toluene (CAS 108-88-3): OSHA PEL 200 ppm (TWA); NIOSH REL 100 ppm (TWA), 150 ppm STEL; ACGIH TLV-TWA 20 ppm (skin notation). India: verify current Schedule from CPCB/MoEFCC/Factories Act. Apply ALARA if no local OEL confirmed.
Engineering Controls	Use closed-system handling and local exhaust ventilation (LEV) to control vapour below OEL. Use explosion-proof ventilation and bonding/grounding for flammable liquid handling.
Respiratory Protection	If ventilation is inadequate, use NIOSH/EN-approved organic vapour cartridge respirator (OV type). Use SCBA in emergency or confined-space entry.
Hand / Eye / Skin	Gloves: chemical-resistant nitrile, butyl rubber, or neoprene (verify breakthrough time for task duration). Eyes: EN 166/ANSI Z87.1 chemical splash goggles; add face shield where splash risk exists. Skin: chemical-resistant apron and safety footwear; antistatic PPE where flammable vapours may occur. Provide eyewash and safety shower in work area.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colourless liquid
Odour	Sweet, pungent, benzene-like odour
Odour Threshold	Not established in reviewed public source text
pH	Not applicable (non-aqueous liquid)
Melting / Freezing Point	-95°C (-139°F) [NTP, 1992]
Boiling Point / Range	110.6°C (231.1°F) at 760 mmHg [NTP, 1992]



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Flash Point	4°C (39°F) — closed cup (Flam. Liq. 2)
Auto-ignition Temperature	480°C (896°F) [USCG, 1999]
Flammability Limits	LEL: 1.1% v/v; UEL: 7.1% v/v (verify with supplier SDS)
Vapour Pressure	29 mmHg at 20°C (approx.); 10 mmHg at 6.4°C; 20 mmHg at 18.4°C; 40 mmHg at 31.8°C [NTP, 1992]
Vapour Density (air = 1)	3.14 — heavier than air; will sink and accumulate at low points
Relative Density	0.867 at 20°C — less dense than water; will float [USCG, 1999]
Solubility in Water	~0.53 g/L at 20°C (sparingly soluble) [NTP, 1992]
Log Pow (Partition Coeff.)	2.73 [PEER REVIEWED]
Evaporation Rate	See supplier SDS for grade-specific value
Viscosity	0.560 mPa·s at 25°C; 0.778 mPa·s at 0°C [PEER REVIEWED]
VOC Content	Assess per applicable regional VOC regulations (essentially 100% VOC)

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Heat, open flames, ignition sources, contamination, and contact with incompatible materials.
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 in ambient blending or storage.
Hazardous Decomposition	Carbon monoxide, carbon dioxide, and irritating or toxic fumes may be produced in fire or high-temperature decomposition.
Hazardous Reactions	No hazardous polymerisation. No hazardous self-reactive decomposition under normal storage and handling conditions.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Toluene LD50 (rat, oral): ~5,000 mg/kg. Classified Acute Tox. 4 (inhalation). See Section 2.
Acute Dermal Toxicity	Toluene LD50 (rabbit, dermal): >12,000 mg/kg. Skin irritant (H315). See Section 2.
Acute Inhalation Toxicity	Toluene LC50 (rat, 4h): ~30 mg/L. Classified Acute Tox. 4 (inhalation) — H332. See Section 2.



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Skin Irritation	Causes skin irritation (H315). May cause dryness and cracking on repeated contact.
Eye Irritation	May cause eye irritation (H320 noted in source; verify classification against current supplier SDS). Rinse immediately.
Sensitisation	Not classified as a skin or respiratory sensitiser based on available data. Verify from supplier SDS.
Carcinogenicity	Not classified as a carcinogen under GHS/IARC for toluene. Verify from supplier/regulatory sources.
Mutagenicity	Not classified as a mutagen under GHS for toluene. Verify from supplier SDS.
Specific Target Organ (Single)	STOT SE 3 — may cause drowsiness or dizziness (H336); may cause respiratory irritation (H335). Target organ: CNS.
Specific Target Organ (Repeat)	STOT RE 2 — may cause damage to organs through prolonged or repeated exposure (H373). Target organ: CNS, auditory system. Verify via supplier SDS.
Reproductive Toxicity	Repr. 2 — suspected of damaging fertility or the unborn child (H361). Verify via supplier/regulatory SDS.
Aspiration Hazard	Asp. Tox. 1 — may be fatal if swallowed and enters airways (H304). Do NOT induce vomiting.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	Harmful to aquatic life with long lasting effects (H412). Classified Aquatic Chronic 3. Toluene LC50 (fish, 96h): ~18–54 mg/L. Obtain verified LC50/EC50/NOEC values from supplier/ECHA/PubChem where required.
Persistence / Degradability	Toluene is readily biodegradable under aerobic conditions. However, do not assume biodegradability in all environmental scenarios without verification.
Bioaccumulation	Log Pow 2.73 — low bioaccumulation potential (BCF generally below 100). Verify BCF from supplier or ECHA where required.
Mobility in Soil	Moderate mobility in soil due to low Koc. Soluble fraction may leach to groundwater. 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/national hazardous waste regulations. Do not pour down drains or to the environment.
Contaminated Packaging	Empty containers may retain product residues and flammable vapours; handle as hazardous until fully cleaned or disposed of by authorised contractor.
Indian Regulations	Follow Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, and applicable State Pollution Control Board / CPCB requirements for disposal and record-keeping.

SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	UN 1294	UN 1294	UN 1294
Proper Shipping Name	TOLUENE	TOLUENE	TOLUENE
Class	3	3	3
Packing Group	II	II	II
Marine Pollutant	No	No	N/A

UN 1294 / Class 3 / PG II applies across road (ADR), sea (IMDG), and air (IATA). EmS (IMDG): F-E, S-D. Verify current carrier/regulatory requirements before each shipment. Use UN-certified packaging. Source: PubChem transport text / DOT ERG. Packing Group corrected to II (source showed inconsistency – 'Verify' for road/sea and '3' for air under PG field).

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Observe REACH and CLP requirements where applicable. Classified and labelled according to Section 2. Observe applicable workplace chemical, VOC, and environmental requirements.
OSHA (USA)	Prepared in OSHA HCS/HazCom-aligned 16-section SDS format. Toluene is listed on OSHA's regulated substances list with PEL 200 ppm.
India	Observe applicable Indian MSIHC Rules 1989, Factories Act 1948, Hazardous and Other Wastes Rules 2016, transport (CMV Act/DGMS), and State Pollution Control Board requirements. Toluene



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is a Schedule substance — confirm applicable Schedule under
MSIHC.

TSCA (USA)	Toluene is on the TSCA inventory. Verify SNUR status before US import or distribution.
Canada WHMIS / HPR	Classify/label under WHMIS 2015/HPR using Section 2 classification. Canadian sale may require bilingual SDS/label and ingredient disclosure.
China (GB Standards)	Use applicable GB/T SDS and classification requirements where marketed.
Middle East / GCC	Observe applicable GHS-aligned local requirements.
Australia (AICS)	Toluene is listed on AICS. Check inventory and SUSMP scheduling before export or import.
Other Jurisdictions	Final market placement requires confirmation of local OELs, transport class, waste code, and product restrictions. Regulatory Scope Limitation: this SDS does not constitute legal compliance advice for all jurisdictions.

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.

FULL TEXT OF H-STATEMENTS

- H225 — Highly flammable liquid and vapour
- H304 — May be fatal if swallowed and enters airways
- H315 — Causes skin irritation
- H320 — Causes eye irritation (source-listed; verify current classification)
- H332 — Harmful if inhaled
- H335 — May cause respiratory irritation
- H336 — May cause drowsiness or dizziness



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-
- H361 — Suspected of damaging fertility or the unborn child
-
- H373 — May cause damage to organs through prolonged or repeated exposure
-
- H412 — Harmful to aquatic life with long lasting effects
-