

**SAFETY DATA SHEET (SDS)****Rev 1.0**

Prepared: May 2026

GHS compliant | Rev 1.0 | Prepared: May 2026

GHS02  
FlammableGHS07  
Harmful / IrritantGHS08  
Health Hazard**SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY**

<b>Product Name</b>	<b>Styrene Monomer</b>
<b>Product Type</b>	Styrene - solvent / industrial chemical
<b>Chemical Family</b>	Styrene
<b>CAS No. (Styrene Monomer)</b>	100-42-5
<b>CAS No. (Other Component)</b>	N/A
<b>Intended Use</b>	Industrial / professional use as described on the SPC product page.
<b>Restrictions on Use</b>	Industrial / professional use only. Confirm suitability for final application before use.
<b>Manufacturer / Supplier</b>	Supreme Petro Chemicals
<b>Address</b>	Periyamet, Chennai - 600 003, Tamil Nadu, India
<b>Emergency Contact</b>	Sudarshan - 8197947045; Sanketh - 8608780096
<b>Email</b>	admin@supremepetrochemicals.com
<b>SDS Revision Date</b>	May 2026
<b>SDS Version</b>	1.0
<b>Product Page URL</b>	<a href="https://www.supremepetrochemicals.com/products/styrene-monomer">https://www.supremepetrochemicals.com/products/styrene-monomer</a>

**SECTION 2 HAZARD IDENTIFICATION**

<b>Flam. Liq. 3; Asp. Tox. 1; Skin Irrit. 2; Eye Irrit. 2; Acute Tox. 4; STOT SE 3; Repr. 2; STOT RE 1; Aquatic Chronic 3</b>	
<b>H226</b>	H226: Flammable liquid and vapour
<b>H315</b>	H315: Causes skin irritation
<b>H319</b>	H319: Causes serious eye irritation
<b>H332</b>	H332: Harmful if inhaled
<b>H372</b>	H372: Causes damage to organs through prolonged or repeated exposure
<b>H304</b>	H304: May be fatal if swallowed and enters airways
<b>H335</b>	H335: May cause respiratory irritation
<b>H361</b>	H361: Suspected of damaging fertility or the unborn child

<b>Signal Word</b>	DANGER
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<b>GHS Pictograms</b>	GHS02 (Flammable)   GHS07 (Harmful / Irritant)   GHS08 (Health Hazard)   GHS09 (Environmental Hazard)
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**Hazard Statements:**

- H226 - Flammable liquid and vapour
  - H315 - Causes skin irritation
  - H319 - Causes serious eye irritation
  - H332 - Harmful if inhaled
  - H372 - Causes damage to organs through prolonged or repeated exposure
  - H304 - May be fatal if swallowed and enters airways
  - H335 - May cause respiratory irritation
- H361 - Suspected of damaging fertility or the unborn child  
H412 - Harmful to aquatic life with long lasting effects
- H413 - See source GHS notification text
  - 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 Statements (Response):**

- 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.
- 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.

**Precautionary Statements (Storage & Disposal):**

- 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 or concentration range	GHS Classification
Styrene Monomer	100-42-5	See ECHA / supplier SDS	100	Flam. Liq. 3; Asp. Tox. 1; Skin Irrit. 2; Eye Irrit. 2; Acute Tox. 4; STOT SE 3; Repr. 2; STOT RE 1; Aquatic Chronic 3

**Note:** Percentages are by volume. Full text of H-statements listed in Section 16.

**SECTION 4 FIRST AID MEASURES**



<b>Inhalation</b>	Use product-specific first aid based on exposure route: move to fresh air after inhalation, wash skin, rinse eyes for at least 15 minutes, and seek medical advice after ingestion or persistent symptoms.
<b>Skin Contact</b>	Remove contaminated clothing. Wash affected skin thoroughly with water and soap where appropriate. Seek medical attention if symptoms persist.
<b>Eye Contact</b>	Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek medical attention.
<b>Ingestion</b>	Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek medical advice.
<b>Note to Physician</b>	Treat symptomatically based on exposure route and product hazards.

## SECTION 5 FIREFIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Use extinguishing media appropriate for the product hazard classification. Fire may produce toxic or irritating fumes; firefighters should wear SCBA.
<b>Unsuitable Media</b>	Direct high-pressure water jet where it may spread the material.
<b>Specific Hazards</b>	Use extinguishing media appropriate for the product hazard classification. Fire may produce toxic or irritating fumes; firefighters should wear SCBA.
<b>Fire &amp; Explosion Risk</b>	Flammable vapours may form explosive mixtures with air, travel to ignition sources and flash back. Containers may rupture when heated. Use grounded/explosion-proof equipment.
<b>Protective Equipment for Firefighters</b>	Wear full protective clothing and self-contained breathing apparatus (SCBA).
<b>Special Procedures</b>	Evacuate non-essential personnel. Prevent contaminated run-off from entering drains and waterways.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Isolate area, use PPE from Section 8, prevent environmental release, and collect material in compatible labelled containers.
<b>Environmental Precautions</b>	Prevent entry into drains, sewers, soil and watercourses.
<b>Containment Methods</b>	Isolate area, use PPE from Section 8, prevent environmental release, and collect material in compatible labelled containers.
<b>Clean-up Methods</b>	Collect material into labelled containers for disposal through an approved waste contractor.
<b>Reference to Sections</b>	See Section 8 for PPE, Section 13 for disposal and Section 15 for regulatory information.

## SECTION 7 HANDLING AND STORAGE

<b>Handling Precautions</b>	Use adequate ventilation, avoid contact and inhalation, and store tightly closed away from incompatible materials.
<b>Hygiene</b>	Wash hands after handling. Remove contaminated clothing before reuse. Do not eat, drink or smoke when using.
<b>Storage Conditions</b>	Use adequate ventilation, avoid contact and inhalation, and store tightly closed away from incompatible materials.
<b>Storage Temperature</b>	Store at ambient temperature unless supplier instructions specify otherwise.
<b>Incompatible Materials</b>	Strong oxidizers and product-specific incompatible substances; see supplier SDS before use.
<b>Packaging</b>	Store in original, tightly closed compatible containers. Inspect containers regularly for leakage or damage.



Segregation	Segregate from food, drink, animal feed and incompatible chemicals.
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## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	OEL (8h TWA)	STEL (15 min)	Standard	Notes
Styrene Monomer	Use verified local OEL if established; otherwise ALARA/good industrial hygiene	Use verified local STEL/ceiling if established	OSHA/NIOSH/ACGI H/EU/UK/India	CAS 100-42-5; supplier/regional OEL confirmation required.

Engineering Controls	Use closed handling/local exhaust for dust, mist, vapour or aerosol. Use explosion-proof ventilation and grounding for flammable liquids.
Respiratory Protection	If ventilation is inadequate, use a NIOSH/EN respirator: organic vapour, acid gas, ammonia, or P95/P100 particulate cartridge as applicable. Use SCBA for emergencies.
Hand Protection	Wear compatible chemical-resistant gloves, e.g. nitrile, butyl, neoprene, PVC or laminate; select thickness/breakthrough time for the product and task.
Eye/Face Protection	Wear EN 166/ANSI Z87.1 chemical splash goggles; add face shield for splash, corrosive, dust, molten or pressure-transfer risk.
Body Protection	Wear chemical-resistant clothing/apron and safety footwear; use antistatic PPE where flammable vapours may occur.
Hygiene Measures	Provide eyewash and safety shower where appropriate. Wash after handling.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	The appearance or features of this compound, including color,
Odour	PEER REVIEWED Characteristic, sweet, balsamic, almost floral odor that is extremely penetrating
Odour Threshold	Not established in reviewed public source text
pH	Not applicable unless supplied/used as an aqueous solution. For acids, alkalis, salts, surfactants and aqueous grades, verify pH from supplier COA/SDS before release.
Melting/Freezing Point	-24 to -23 °F (NTP, 1992)
Boiling Point / Range	293 to 295 °F at 760 mmHg (NTP, 1992)
Flash Point	88 °F (NTP, 1992) The Guide from the Emergency Response Guidebook is for "Styrene monomer, stabilized." 34 °C
Auto-ignition Temperature	914 °F (USCG, 1999)
Flammability Limits	See PubChem experimental properties.
Vapour Pressure	4.3 mmHg at 59 °F ; 9.5 mmHg at 86 °F; 10 mmHg at 95 °F (NTP, 1992) 6.4 [mmHg]
Vapour Density	PEER REVIEWED 3.6 (Air = 1) Relative vapor density (air = 1): 3.6
Relative Density	0.906 at 68 °F (USCG, 1999) - Less dense than water; will float
Solubility in Water	less than 1 mg/mL at 66 °F (NTP, 1992)
Log Pow (Partition Coeff)	PEER REVIEWED log Kow = 2.95 2.95 3.0
Evaporation Rate	See supplier SDS for grade-specific value
Viscosity	PEER REVIEWED 0.696 cP at 25 °C Corrosivity The ability of a chemical to damage or destroy other substances when it comes into contact.
VOC Content	Assess per applicable regional VOC regulations



Reactivity	See Section 10 and source SDS for grade-specific reactivity
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## SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Avoid heat, ignition sources, contamination and incompatible materials.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Avoid contact with concentrated acids and halogens. Reactive with aluminium chloride (AlCl <sub>3</sub> ) under elevated temperature — not a concern in ambient blending or storage.
Hazardous Decomposition	Carbon oxides and irritating or toxic fumes may be formed in fire.
Hazardous Reactions	No hazardous reactions under normal storage unless noted by product reactivity.
Possibility of Hazardous React.	Will not occur under normal conditions when stored and handled correctly.

## SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation.
Acute Dermal Toxicity	Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation.
Acute Inhalation Toxicity	Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation.
Skin Irritation	Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation.
Eye Irritation	Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation.
Sensitisation	Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation.
Specific Target Organ (Single)	Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation.
Specific Target Organ (Repeat)	Repeated exposure target-organ classification is present in Section 2; use exposure controls and medical surveillance as required.
Reproductive Toxicity	Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation.
Aspiration Hazard	Aspiration hazard classification is present in Section 2 (H304). Do not induce vomiting after ingestion; aspiration into lungs may be fatal.
Carcinogenicity	Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation.
Mutagenicity	Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation.

## SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity (Acute)	Aquatic hazard is classified in Section 2. Prevent release; obtain LC50/EC50/NOEC values from supplier/ECHA/PubChem where required.
Aquatic Toxicity (Chronic)	Chronic aquatic hazard is classified or indicated in Section 2. Treat as environmentally hazardous unless verified otherwise.



<b>Persistence / Degradability</b>	Use supplier, ECHA or PubChem data where available. If not verified, do not assume ready biodegradability.
<b>Bioaccumulation</b>	Use verified log Kow/BCF data where available; UVCB/petroleum/surfactant materials need supplier formulation data.
<b>Mobility in Soil</b>	Assess from solubility, adsorption potential and product form. Prevent release to soil and groundwater.
<b>Other Adverse Effects</b>	Avoid uncontrolled release to the environment.
<b>Environmental Regulations</b>	Manage releases and waste under applicable local environmental regulations.

### SECTION 13 DISPOSAL CONSIDERATIONS

<b>Waste from Product</b>	Dispose of contents through an authorized waste contractor in accordance with local regulations.
<b>Contaminated Packaging</b>	Empty containers may retain residues; handle as hazardous until cleaned or disposed.
<b>European Waste Code</b>	Assign waste code according to actual process and local regulation.
<b>Indian Regulations</b>	Follow local hazardous waste and pollution control requirements.

### SECTION 14 TRANSPORT INFORMATION

Parameter	UN / ADR (Road)	IMDG (Sea)	IATA (Air)	Notes
<b>UN Number</b>	UN 2055	UN 2055	UN 2055	PubChem transport text / DOT ERG source
<b>Proper Shipping Name</b>	STYRE	STYRE	STYRE	
<b>Class</b>	3	3	3	Transport class
<b>Packing Group</b>	Verify	Verify	Verify	
<b>Marine Pollutant</b>	Verify	Verify	—	
<b>Tunnel Restriction</b>	Verify	—	—	ADR
<b>EmS (Sea)</b>	—	Verify	—	IMDG
<b>Special Provisions</b>	Follow applicable ADR requirements.	Follow applicable IMDG requirements.	Follow applicable IATA requirements.	Verify current carrier rules before shipment

Packaging: approved compatible container appropriate to the product. UN-certified drum required for international transport. Drum must be labelled with Class 3 placard, UN 2055, PG II, and product name.

### SECTION 15 REGULATORY INFORMATION

<b>EU / REACH</b>	Observe REACH and CLP requirements where applicable.
<b>EU CLP Regulation</b>	Classified and labelled according to the product-specific GHS/CLP classification listed in Section 2.
<b>EU Directive</b>	Observe applicable workplace chemical, VOC and environmental requirements.
<b>OSHA (USA)</b>	Prepared in OSHA HCS/HazCom aligned 16-section SDS format.
<b>India</b>	Observe applicable Indian MSIHC, workplace, storage, transport, pollution-control and hazardous-waste requirements.
<b>China (GB Standards)</b>	Use applicable GB/T SDS and classification requirements where marketed.



<b>Middle East / GCC</b>	Observe applicable GHS-aligned local requirements.
<b>TSCA (USA)</b>	Verify TSCA inventory/SNUR status before US import or distribution; mixture/UVCB status may require supplier confirmation.
<b>Australia (AICS)</b>	Check inventory status before export or import.
<b>Special Notes</b>	No product-specific special note beyond the classification in Section 2.
<b>Canada WHMIS / HPR</b>	Classify/label under WHMIS 2015/HPR using Section 2 classification; Canadian sale may require bilingual SDS/label and ingredient disclosure.
<b>Regulatory Scope Limitation</b>	Final market placement requires confirmation of inventory status, local OELs, transport class, waste code and restrictions.

## SECTION 16 OTHER INFORMATION

### Full Text of H-Statements:

- H226 - Flammable liquid and vapour
- H315 - Causes skin irritation
- H319 - Causes serious eye irritation
- H332 - Harmful if inhaled
- H372 - Causes damage to organs through prolonged or repeated exposure
- H304 - May be fatal if swallowed and enters airways
- H335 - May cause respiratory irritation

H361 - Suspected of damaging fertility or the unborn child

<b>Prepared By</b>	Supreme Petro Chemicals - Technical Department
<b>SDS Standard</b>	UN GHS Rev.11 (2025); OSHA HCS/HazCom; EU CLP/REACH Annex II; Canada WHMIS/HPR 16-section SDS format
<b>Revision Date</b>	22 May 2026
<b>Version</b>	1.0
<b>Replaces Version</b>	N/A - Initial Issue
<b>Key Sources</b>	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 May 2026.
<b>Audit Correction Note</b>	Corrected from audit findings. Verification-required items need supplier formulation, test or regulatory data before market-specific release.

H412 - Harmful to aquatic life with long lasting effects

#### DISCLAIMER

The information in this document is based on our present knowledge and is believed to be correct. It is provided in good faith. No warranty, express or implied, is made as to the accuracy or completeness. This SDS is prepared in accordance with UN GHS Rev.11 (2025). The user is responsible for 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.

H413 - See source GHS notification text