



SAMRAT POLY RESINS

Manufacturer of Coating & Composite Resins · Doraha, Ludhiana, Punjab, India

SAFETY DATA SHEET

Doc. Ref: SPR-SDS-GGR · Rev. 01 · Issue Date: 8 August 2026

GELCOAT RESIN

Surface-Coating Polyester Gelcoat · White, High-Gloss · Thixotropic

Gelcoat Resin is a gelcoat-grade unsaturated polyester resin solution in styrene monomer, formulated with a pigment/filler, thixotropic, and additive package. It is applied as the outermost surface layer of FRP mouldings — brushed, sprayed, or rolled onto the mould ahead of the laminate — for gelcoat application, composite moulding, surface coating of laminates, marine/automotive/industrial FRP surface finishing, and decorative/protective composite surface layers. It is supplied uncatalyzed and is intended for industrial and professional use only.

Not for use in food-contact, medical, pharmaceutical, or consumer applications unless specifically approved by the manufacturer.

SECTION 1: IDENTIFICATION

1.1 Product Identifier

Product Name	Gelcoat Resin
Product Type	Gelcoat-grade unsaturated polyester resin solution
Chemical Family	Unsaturated polyester resin in styrene monomer with pigment/filler/thixotropic/additive package
Product Code / Internal Reference	GGR
SDS Document Reference	SPR-SDS-GGR, Rev. 01

1.2 Relevant Identified Uses and Uses Advised Against

- Recommended use: Gelcoat application for FRP products, composite moulding, surface coating of laminates, marine/automotive/industrial FRP surface finishing, and decorative/protective composite surface layers — including mould surfaces for FRP moulding and boat hulls, automotive body panels and bathware, sanitaryware, water tanks, and FRP furniture. For industrial/professional use only.
- Uses advised against: Food-contact, medical, pharmaceutical, or consumer applications unless specifically approved by the manufacturer; use as supplied without the correct MEKP catalyst dosage; any use not confirmed with Samrat Poly Resins technical staff.

1.3 Details of the Supplier of the Safety Data Sheet

Company Name	Samrat Poly Resins
Registered Activity	Manufacturer of Coating & Composite Resins (ISO 9001:2015 certified)
Address	Oswal Road, Near GT Road, Doraha, Ludhiana — 141421, Punjab, India
GST No.	03ALBPS3446G1ZB
Website	samratpolyresins.in
Email	info@samratpolyresins.in

1.4 Emergency Telephone Number

Company Emergency Contact	+91 74638 81652
National Poison Information Centre (India)	1800-116-117 (Toll-Free, 24x7) — National Poisons Information Centre, AIIMS New Delhi

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the Substance or Mixture (GHS)

Hazard Class	Category	H-Statement
Flammable liquids	Category 3	H226 — Flammable liquid and vapour
Acute toxicity — inhalation	Category 4	H332 — Harmful if inhaled
Skin irritation	Category 2	H315 — Causes skin irritation
Eye irritation	Category 2	H319 — Causes serious eye irritation
Specific target organ toxicity — single exposure	Category 3 (respiratory tract irritation)	H335 — May cause respiratory irritation
Specific target organ toxicity — repeated exposure	Category 1	H372 — Causes damage to organs through prolonged or repeated exposure
Reproductive toxicity	Category 2	H361d — Suspected of damaging the unborn child
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

2.2 Label Elements

Signal Word	DANGER
Pictograms	GHS02 (Flame), GHS07 (Exclamation Mark), GHS08 (Health Hazard)
Hazard Statements	H226, H304, H315, H319, H332, H335, H361d, H372, H412
Precautionary Statements — Prevention	P210, P233, P240, P241, P242, P243, P261, P264, P271, P280
Precautionary Statements — Response	P303+P361+P353, P304+P340, P305+P351+P338, P312, P321, P332+P313, P337+P313, P370+P378
Precautionary Statements — Storage	P403+P235, P405
Precautionary Statements — Disposal	P501

2.3 Other Hazards

- Vapours may form flammable/explosive mixtures with air. Vapour is heavier than air and can travel along floors/low points to a source of ignition and flash back.
- Spray application (brushing, spraying, or rolling) may generate mist or aerosols that increase inhalation exposure compared with bulk handling — see Sections 8 and 11.
- The recommended storage temperature (30–35°C, per TDS) is close to the flash point carried over from related resin chemistry (31–34°C, see Section 9 for basis and caveats) — storage and handling areas should be treated as flammable-liquid environments at all times; see Section 7.
- Uncatalyzed resin can undergo hazardous, self-accelerating exothermic polymerization if contaminated with peroxides (including MEKP catalyst), strong oxidizers, or exposed to excessive heat — this can lead to container rupture or fire, independent of any external ignition source.

- This product is supplied uncatalysed. Organic peroxide catalyst/MEKP, if used, must be handled under its own separate SDS.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Gelcoat Resin is a mixture. It is supplied as a single-pack, uncatalyzed gelcoat resin; MEKP catalyst is added separately by the customer at the point of use and is outside the scope of this SDS.

Component	CAS No.	EC No.	Concentration (% w/w)	Classification / Hazard Role
Unsaturated polyester resin / polyester oligomer	Not assigned / polymer of variable composition	Not applicable	Balance to 100% after confirmed styrene content (30%) and the pigment/filler, thixotropic additive, and inhibitor packages (each individually undisclosed)	Not separately classified as the main hazard driver in this mixture
Styrene monomer	100-42-5	202-851-5	30%	Flam. Liq. 3 (H226); Acute Tox. 4 (H332); Skin Irrit. 2 (H315); Eye Irrit. 2 (H319); STOT SE 3 (H335); STOT RE 1 (H372); Repr. 2 (H361d); Asp. Tox. 1 (H304); Aquatic Chronic 3 (H412). Main contributor to inhalation, irritation, reproductive, aspiration, aquatic, and chronic exposure hazards in this mixture.
Pigment / filler / colourant package	Proprietary / not disclosed	Proprietary / not disclosed	Proprietary / manufacturer-controlled range (not stated in the TDS)	Not expected to materially alter the primary styrene-resin hazard classification at the stated concentration unless manufacturer data indicates otherwise. Used to provide colour (white), opacity, surface finish, and gelcoat performance. Exact identity and concentration are retained as proprietary manufacturer information.
Thixotropic / rheology control additive package	Proprietary / not disclosed	Proprietary / not disclosed	Proprietary / low percentage (not stated in the TDS)	Not expected to materially alter the primary styrene-resin hazard classification at the stated concentration unless manufacturer data indicates otherwise. Used to control sag resistance, viscosity, and application performance.
Polymerisation inhibitor / stabiliser package	Proprietary / not disclosed	Proprietary / not disclosed	<0.1% (not separately stated in the TDS)	Proprietary inhibitor package, used to prevent premature polymerisation during storage. Identity and exact concentration are retained as proprietary manufacturer information.

SECTION 4: FIRST-AID MEASURES

4.1 Description of First-Aid Measures

Eye Contact	Immediately flush eyes with plenty of clean water for at least 15 minutes, holding eyelids open. Remove contact lenses if present and easy to do. Get medical attention if irritation persists.
Skin Contact	Remove contaminated clothing and shoes immediately. Wash affected skin thoroughly with soap and water. If irritation, redness, or a burning sensation develops, seek medical attention.
Inhalation	Move the affected person to fresh air immediately. Keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen if trained personnel

and equipment are available. Seek medical attention if symptoms (dizziness, headache, nausea) persist.

Ingestion

Do NOT induce vomiting — risk of aspiration into the lungs (chemical pneumonitis). Rinse mouth with water if the person is conscious. Seek medical attention immediately. Never give anything by mouth to an unconscious person.

4.2 Most Important Symptoms and Effects, Acute and Delayed

- Eye/skin: redness, irritation, itching; prolonged or repeated contact may cause drying or cracking of skin.
- Inhalation (at elevated vapour concentrations): headache, dizziness, drowsiness, nausea, and irritation of the nose and throat; high concentrations may cause central nervous system depression / narcosis. Repeated exposure may affect hearing and the nervous system. Spray application may increase inhalation exposure due to aerosol/mist formation.
- Ingestion/aspiration: risk of chemical pneumonitis if aspirated into the lungs during swallowing or vomiting.

4.3 Notes to Physician

Treat symptomatically. There is no specific antidote. Aspiration of this material during ingestion or vomiting can cause chemical pneumonitis, which may be fatal — treating physicians should be made aware of this risk. Do not induce vomiting.

SECTION 5: FIRE-FIGHTING MEASURES**5.1 Extinguishing Media**

- Suitable: Alcohol-resistant foam, dry chemical powder, carbon dioxide (CO₂), water spray/fog (for cooling containers).
- Not suitable: Do not use a direct/solid water jet — it can spread burning material and is ineffective on flammable-liquid fires.

5.2 Special Hazards Arising from the Substance or Mixture

- Flammable liquid; vapours may form explosive mixtures with air. Vapour is heavier than air, may travel along the ground to a distant ignition source and flash back.
- Containers may rupture when heated. Under fire conditions, uncontrolled exothermic polymerization of the resin can occur, potentially leading to violent rupture of closed containers/drums.
- Hazardous combustion products: carbon monoxide, carbon dioxide, irritating fumes, and styrene vapours.

5.3 Advice for Fire-Fighters

- Evacuate the area and fight fire from a safe, protected distance where possible.
- Wear full protective clothing and a self-contained breathing apparatus (SCBA) with a full face-piece operated in positive-pressure mode.
- Cool fire-exposed closed containers/drums with water spray from a safe distance to prevent pressure build-up and rupture.
- Contain fire-fighting water run-off; prevent it from entering drains, watercourses, or soil.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1 Personal Precautions, Protective Equipment and Emergency Procedures**

- Evacuate unnecessary personnel. Remove all sources of ignition (naked flames, sparks, hot surfaces, static discharge, electrical equipment) in and around the spill area.
- Ventilate the area, especially low-lying and enclosed spaces where vapour can accumulate. Use non-sparking tools.
- Wear appropriate PPE as described in Section 8 before attempting clean-up.

6.2 Environmental Precautions

- Prevent entry into drains, sewers, watercourses, or soil. Dike/bund the spill if it is safe to do so.

- Notify the relevant Pollution Control Board and site EHS personnel for any spill that reaches, or is likely to reach, a drain or waterway.

6.3 Methods and Material for Containment and Cleaning Up

- Small spills: Absorb with an inert material such as sand, earth, or vermiculite. Sweep/scoop into a suitable, labelled, closed container for disposal.
- Large spills: Dike the area to prevent spreading; pump into salvage containers using non-sparking, explosion-proof equipment where vapour concentrations warrant it. Note the product's high viscosity (see Section 9) will slow spreading but also slow clean-up — allow extra time and material for absorption.
- Collect in approved, labelled containers. Do not allow contaminated absorbent to accumulate in a confined pile — bulk resin-soaked absorbent can self-heat and undergo exothermic polymerization.
- Dispose of collected material according to local regulations — see Section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling

- Avoid breathing vapours, spray mist, or aerosols. Handle only in well-ventilated areas, or use local exhaust ventilation at brushing, spraying, or rolling stations to control vapour concentration below occupational exposure limits (see Section 8).
- Avoid skin and eye contact. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
- Ground and bond containers and transfer equipment when transferring resin between drums/tanks, and use non-sparking tools, to control static electricity, particularly for bulk transfer.
- Keep this uncatalyzed resin strictly separate from MEKP and other organic peroxide catalysts, oxidizing agents, and strong oxidizers until the intended point-of-use mixing step, unless intentionally used together under controlled processing conditions. Never return catalyzed/mixed material to the bulk container.
- Keep container closed when not in use. Use the PPE specified in Section 8.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

FLAMMABLE LIQUID STORAGE — MANDATORY CONTROLS

Recommended storage temperature (30–35°C, per TDS) is close to the flash point carried over from related resin chemistry (31–34°C — see Section 9 for basis and caveats). Storage and handling areas should be treated as flammable-liquid storage areas at all times, without exception:
Cool, dry, well-ventilated storage · No open flames · No smoking · No sparks · Explosion-proof electrical fittings where required · Proper grounding/bonding · Avoid direct sunlight and heat accumulation · Keep containers tightly closed · Store away from oxidisers, acids, bases, amines, peroxides, organic peroxide catalysts, accelerators, reducing agents, and polymerisation catalysts unless intentionally used under controlled processing conditions.

Storage Temperature	30–35°C, per manufacturer TDS. Avoid direct sunlight and localized heat sources; excessive temperature shortens shelf life and increases self-polymerization risk.
Shelf Life	3 months from date of manufacture, under recommended storage conditions, per manufacturer TDS.
Storage Area	Cool, dry, well-ventilated area, away from direct sunlight and ignition sources. Bund/contain to capture leaks. Store as a flammable liquid (Category 3) in accordance with MSIHC 1989 (see Section 15).
Incompatible Materials	Peroxides and other free-radical initiators (incl. MEKP), strong oxidizing agents, strong acids and bases, amines, reducing agents — keep segregated unless intentionally used under controlled processing conditions.
Packaging Material	50 kg or 225 kg drum/pail as supplied, per manufacturer TDS. Keep containers tightly closed when not in use.

7.3 Specific End Use(s)

Applied as the outermost surface layer of FRP mouldings — brushed, sprayed, or rolled onto the mould ahead of the laminate — for gelcoat application, composite moulding, and surface coating of laminates. Refer to the product TDS (SPR-TDS-GGR) for recommended MEKP catalyst dosage, gel time (approx. 8.5 minutes), cure time (approx. 1.5–2 hours), and processing parameters. This product is thixotropic and resists sagging on vertical mould surfaces.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters — Occupational Exposure Limits (Styrene, the major volatile component)

Source	TWA	STEL / Ceiling	Basis
ACGIH (USA)	TLV-TWA 10 ppm	TLV-STEL 20 ppm	Threshold Limit Value; Ototoxicant and A3 notations
NIOSH REL (USA)	50 ppm (215 mg/m ³)	ST 100 ppm (425 mg/m ³)	Recommended Exposure Limit
OSHA PEL (USA)	100 ppm	Ceiling 200 ppm / Peak 600 ppm	29 CFR 1910.1000 Table Z-2
India — Factories Act 1948, Second Schedule	50 ppm (215 mg/m ³)	STEL 100 ppm (425 mg/m ³)	Statutory limit under §41-F

8.2 Exposure Controls

- Engineering controls: Local exhaust ventilation for brushing, spraying, rolling, laminating, mixing, bulk transfer, or enclosed-space use. Ensure general workplace ventilation keeps vapour concentrations below the applicable OEL. Use only outdoors or in a well-ventilated area.
- Eye/face protection: Chemical splash goggles; face shield where splashing or spraying may occur.
- Hand protection: Nitrile gloves or other chemically resistant gloves suited to styrene/polyester resin systems (e.g. PVA or Viton for prolonged or repeated contact).
- Body protection: Antistatic protective clothing.
- Respiratory protection: Organic vapour respirator where ventilation is inadequate to keep exposure below the OEL, or for confined-space, high-concentration, or spray application work.
- General hygiene: Do not eat, drink, or smoke while handling. Wash hands thoroughly and exposed skin before breaks and at the end of the shift. Launder or discard resin-contaminated clothing before reuse.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White, high-gloss, thixotropic liquid
Odour	Sweet, aromatic styrene-like odour
Odour Threshold	0.04–0.32 ppm, based on styrene component data
pH	Not applicable — non-aqueous organic resin solution
Melting / Freezing Point	Not applicable to mixture; styrene component freezing point approx. -31°C
Initial Boiling Point / Range	Approx. 145°C, based on styrene volatile component
Flash Point	31–34°C, carried over from related resin chemistry (closed-cup) — NOT independently tested for Gelcoat Resin. The manufacturer's own TDS lists this field as 'Not Provided,' pending confirmation with technical staff, and specifies no value is to be estimated or assumed; treat with additional caution given this product's different formulation (higher viscosity, thixotropic and pigment/filler additive package, lower styrene content) until product-specific testing confirms it
Evaporation Rate	Approx. 0.5 (n-butyl acetate = 1), based on styrene component / comparable resin-solution data
Flammability	Flammable liquid and vapour
Lower Explosive Limit	Approx. 1.1% v/v, based on styrene component data
Upper Explosive Limit	Approx. 6.1–7.0% v/v, based on styrene component data
Vapour Pressure	Approx. 4.5–6.4 mmHg at 20°C, based on styrene / comparable resin-solution data

Vapour Density (air = 1)	Approx. 3.6, based on styrene component data
Relative Density / Specific Gravity	Manufacturer TDS lists this field as 'Not Provided,' pending confirmation with technical staff, with no value to be estimated or assumed. For reference only, typical filled/pigmented gelcoat resin systems range approx. 1.08–1.25 g/cm ³ — NOT a confirmed value for this product
Solubility in Water	Insoluble / very slightly soluble
Solubility in Organic Solvents	Soluble / miscible in compatible organic solvents and styrene
Partition Coefficient (log Kow)	Approx. 2.96, based on styrene component data
Auto-Ignition Temperature	Approx. 490°C, based on styrene component data
Decomposition Temperature	Not normally applicable under recommended storage and handling; hazardous decomposition may occur under fire, excessive heat, or uncontrolled polymerisation conditions
Viscosity	11,000 cPs, per manufacturer TDS — substantially higher than general-purpose laminating resins due to the thixotropic additive package
Thixotropic Behaviour	Thixotropic — resists sagging on vertical mould surfaces, per manufacturer TDS
VOC Content	Approx. 30% w/w, based on the confirmed styrene content of the uncured product
Explosive Properties	Not classified as explosive; hazardous exothermic polymerization possible under contamination/heat — see Section 10
Oxidizing Properties	Not classified as oxidizing

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Not reactive under normal handling and storage conditions when kept away from peroxides, strong oxidizers, and excess heat. Can undergo hazardous, self-accelerating exothermic polymerization if contaminated or overheated.

10.2 Chemical Stability

Stable under recommended storage and handling conditions. May polymerise if exposed to heat, direct sunlight, contamination, peroxides, oxidisers, or inhibitor depletion.

10.3 Possibility of Hazardous Reactions

Hazardous polymerization can occur if the resin is contaminated with peroxides (including MEKP catalyst), strong oxidizing agents, or exposed to excessive heat without adequate inhibitor protection. This reaction is exothermic and, in a confined or bulk quantity, can self-accelerate to the point of container rupture or fire.

10.4 Conditions to Avoid

- Heat, sparks, open flames, and other ignition sources.
- Direct sunlight and prolonged storage above the recommended storage temperature.
- Oxidising agents, acids, bases, amines, peroxides, organic peroxide catalysts, reducing agents, and incompatible accelerators, unless intentionally used under controlled processing conditions.

10.5 Incompatible Materials

Peroxides and other free-radical initiators, strong oxidizing agents, strong acids and bases, amines, reducing agents, and metal driers/accelerators other than those intentionally formulated into the cure system.

10.6 Hazardous Decomposition Products

Under fire, excessive heat, or uncontrolled polymerisation, this product may generate carbon oxides, irritating fumes, and styrene vapour.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological effects associated with this product are primarily attributed to its styrene content, the major hazardous/volatile component. Component-based data is presented below.

11.1 Information on Toxicological Effects

Acute Toxicity — Oral (rat)	LD50 approx. 2,650 mg/kg, based on styrene component data
Acute Toxicity — Inhalation (rat, 4h)	Harmful by inhalation; LC50 approx. 12,000 ppm, based on styrene component data
Skin Corrosion / Irritation	Causes skin irritation, based on styrene component data
Serious Eye Damage / Irritation	Causes serious eye irritation; may cause lachrymation at elevated vapour concentrations, based on styrene component data
Respiratory / Skin Sensitisation	No sensitisation classification identified for the styrene component or in comparable resin systems reviewed
Germ Cell Mutagenicity	Styrene mutagenicity data is mixed/inconclusive in published sources; no mutagenicity classification applied
Carcinogenicity	Styrene is classified by IARC as Group 2B (possibly carcinogenic to humans) and by ACGIH as A3 (confirmed animal carcinogen, unknown relevance to humans)
Reproductive Toxicity	Suspected reproductive toxicity — Category 2 (H361d, suspected of damaging the unborn child), based on styrene component classification
STOT — Single Exposure	May cause respiratory tract irritation and CNS effects — headache, dizziness, drowsiness, nausea — at elevated vapour concentrations
STOT — Repeated Exposure	May cause damage to organs (central nervous system, hearing, upper respiratory tract) through prolonged or repeated exposure, based on styrene component data
Aspiration Hazard	May be fatal if swallowed and enters airways (risk of chemical pneumonitis), based on styrene component data
Application-Specific Note	Spray application (brushing, spraying, or rolling) may increase inhalation exposure due to aerosol/mist formation compared with bulk handling

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Fish	LC50 (96h) approx. 25–65 mg/L, based on styrene component data
Aquatic Invertebrates	EC50 (48h) approx. 23 mg/L, based on styrene component data
General	Harmful to aquatic life with long-lasting effects, depending on exposure and concentration. Avoid release to drains, soil, and water bodies.

12.2 Persistence and Degradability

The product, as a complete uncured resin mixture, is not expected to be readily biodegradable. The cured (fully polymerized) resin is expected to be inert and largely insoluble. The pigment/filler package is proprietary and is not expected to alter this primary ecological classification unless manufacturer data indicates otherwise.

12.3–12.6 Bioaccumulative Potential, Mobility, Other Adverse Effects

A formal PBT/vPvB assessment has not been performed for the mixture. Do not release to the environment; see Section 6.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

- Dispose of uncured resin, resin-contaminated waste, and rinse water through authorised waste handlers. Do not discharge into drains, soil, or water bodies.
- Handle uncured/off-spec resin and resin-contaminated absorbent as hazardous chemical waste, in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 (India) and applicable State Pollution Control Board requirements.
- Fully cured (polymerized) gelcoat/FRP scrap is generally treated as inert solid waste; confirm current requirements with the relevant State Pollution Control Board.
- Empty containers/drums may contain flammable vapours and product residue. Do not cut, weld, drill, or apply heat to empty containers. Handle, store, and dispose of empty containers as hazardous waste unless certified as cleaned, or return to an authorised drum-reconditioner.
- Follow all applicable local, state, and national regulations for disposal.

SECTION 14: TRANSPORT INFORMATION

UN Number	UN 1866
UN Proper Shipping Name	RESIN SOLUTION, flammable
Transport Hazard Class(es)	Class 3 — Flammable liquid
Packing Group	III
Environmental Hazards / Marine Pollutant	Not expected to be classified as a marine pollutant based on available component data
Special Precautions for User	Keep away from heat, sparks, open flames, hot surfaces, oxidising agents, organic peroxides, and sources of ignition. Transport in tightly closed, approved containers, upright and secured against movement.
Transport in Bulk (Annex II MARPOL/IBC Code)	Not applicable — product transported in 50 kg / 225 kg drums/pails, not in bulk
India — Road Transport	Subject to the Central Motor Vehicles Rules, 1989 (Class 3, Flammable Liquid)

As with all dangerous goods shipments, the shipper is responsible for verifying classification, packaging, marking, and documentation against the dangerous-goods regulations current at the time and mode of each shipment.

SECTION 15: REGULATORY INFORMATION

15.1 India

- Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 (MSIHC), under the Environment (Protection) Act, 1986 — Gelcoat Resin falls into the Rules' 'highly flammable liquid' band (flash point ≤60°C but >23°C). Schedule 1–3 applicability depends on quantities held on site.
- Occupational exposure limits for styrene under the Factories Act 1948, Second Schedule (§41-F) — see Section 8.
- ACGIH reference exposure limits — see Section 8.
- Factories Act, 1948 and applicable State Factory Rules — workplace exposure limits, storage, and safety provisions for hazardous substances, including flammable-liquid handling and storage requirements.
- Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 — governs disposal (see Section 13).
- India has not formally adopted the GHS for workplace chemical classification; this 16-section GHS-format SDS in English follows generally accepted practice.
- Users must comply with all applicable local, state, national, and transport regulations.

15.2 International Reference (where this product or its components may be exported/shipped)

- Styrene (CAS 100-42-5) is an actively listed substance on the US TSCA Inventory and is registered under EU REACH; it carries a harmonised CLP classification broadly consistent with Section 2 of this SDS.
- For US shipments: OSHA Hazard Communication Standard, 29 CFR 1910.1200, applies to labelling and SDS format.
- For EU shipments: Regulation (EC) No. 1272/2008 (CLP) and Regulation (EC) No. 1907/2006 (REACH) apply.

SECTION 16: OTHER INFORMATION

Full Text of Hazard (H) and Precautionary (P) Statements Referenced in Sections 2 and 3

- H226 — Flammable liquid and vapour
- H304 — May be fatal if swallowed and enters airways
- H315 — Causes skin irritation
- H319 — Causes serious eye irritation
- H332 — Harmful if inhaled
- H335 — May cause respiratory irritation
- H361d — Suspected of damaging the unborn child
- H372 — Causes damage to organs through prolonged or repeated exposure
- H412 — Harmful to aquatic life with long-lasting effects

Abbreviations

ACGIH = American Conference of Governmental Industrial Hygienists · CAS = Chemical Abstracts Service · CLP = Classification, Labelling and Packaging Regulation (EU) · GHS = Globally Harmonized System of Classification and Labelling of Chemicals · IARC = International Agency for Research on Cancer · LC50/LD50 = Lethal Concentration/Dose, 50% · MSIHC = Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 · NIOSH = National Institute for Occupational Safety and Health · OEL = Occupational Exposure Limit · OSHA = Occupational Safety and Health Administration · PEL = Permissible Exposure Limit · REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals · REL = Recommended Exposure Limit · SDS = Safety Data Sheet · STEL = Short-Term Exposure Limit · STOT RE/SE = Specific Target Organ Toxicity, Repeated/Single Exposure · TLV = Threshold Limit Value · TWA = Time-Weighted Average · UPR = Unsaturated Polyester Resin.

Revision Information

SDS Version / Revision No.	01
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Prepared By	Samrat Poly Resins / Regulatory Department
Reason for Issue	Initial official issue

This SDS has been prepared based on available technical data, manufacturer/chemist-reviewed product information, component hazard data, and applicable safety references. The information is provided for safe handling, storage, transport, use, and disposal of the product. Values shown are typical for this resin system and are believed accurate; users are responsible for confirming suitability for their specific application and for compliance with current regulations at the time of use.