



SAMRAT POLY RESINS

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

SAFETY DATA SHEET

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

DMC/SMC RESIN

Orthophthalic Unsaturated Polyester Resin · DMC & SMC Moulding Compounds · Electrical Grade

BINDER RESIN — NOT A FILLED DMC/SMC COMPOUND

This product is a BINDER RESIN for Dough Moulding Compound (DMC) and Sheet Moulding Compound (SMC) manufacture — it does NOT itself contain calcium carbonate or other mineral filler, glass fibre reinforcement, thickening agents (e.g. magnesium oxide), mould-release agents, or other materials typically incorporated during DMC/SMC compounding. Those are added by the customer during compounding and are outside the scope of this SDS, governed by their own SDS documents.

DMC/SMC Resin is an orthophthalic unsaturated polyester resin solution in styrene monomer, engineered for the production of Dough Moulding Compound (DMC) and Sheet Moulding Compound (SMC) composites. The manufacturer's TDS confirms high mechanical strength, dimensional stability, chemical/corrosion/moisture resistance, electrical insulation properties, and a superior surface finish suited to high-volume moulding. Recommended applications include DMC and SMC moulding compounds, electrical housings and manhole covers, automotive panels and transportation components, and water tanks and sanitaryware. It is supplied uncatalyzed and is intended for industrial and professional use only.

No specific dielectric strength value, arc-resistance rating, UL 94 flammability rating, or other formal electrical/fire-performance certification is claimed beyond the general 'electrical insulation properties' and 'electrical grade' description in the manufacturer's TDS.

SECTION 1: IDENTIFICATION

1.1 Product Identifier

Product Name	DMC/SMC Resin
Product Type	Orthophthalic unsaturated polyester binder resin for DMC/SMC moulding compounds
Chemical Family	Orthophthalic unsaturated polyester resin in styrene monomer
Product Code / Internal Reference	DMC
SDS Document Reference	SPR-SDS-DMC, Rev. 01

1.2 Relevant Identified Uses and Uses Advised Against

- Recommended use: Binder resin for Dough Moulding Compound (DMC) and Sheet Moulding Compound (SMC) manufacture — including electrical housings and manhole covers, automotive panels and transportation components, and water tanks and sanitaryware. For industrial/professional use only.
- Uses advised against: Food-contact, medical, pharmaceutical, or other applications not specifically approved by the manufacturer; use as supplied without the correct 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
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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

This classification reflects the styrene-driven hazard pattern shared across this company's styrene-containing resin family, applied to this product's confirmed 35% styrene content and confirmed 32°C flash point (both TDS-verified, not carried over or estimated).

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.
- Uncatalyzed resin can undergo hazardous, self-accelerating exothermic polymerization if contaminated with peroxides (including its own 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, where used, is a separate chemical product and must be handled in accordance with its own Safety Data Sheet.
- Downstream DMC/SMC compounding (mixing with mineral filler, glass fibre, thickeners, and release agents) introduces separate hazards specific to those added materials — not addressed by this SDS. Cured/compounded DMC/SMC part processing (drilling, machining, trimming) may generate composite dust — see Section 8.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

DMC/SMC Resin is a mixture. It is supplied as a single-pack, uncatalyzed resin; MEKP catalyst is a recommended processing/addition rate applied separately by the customer at the point of use and is not an ingredient of the supplied product — it is outside the scope of this SDS.

Component	CAS No.	EC No.	Concentration (% w/w)	Classification / Hazard Role
Unsaturated polyester resin / polyester oligomer (orthophthalic)	Not assigned / polymer of variable composition	Not applicable	65% (balance to 100% from confirmed styrene content)	Principal resin/binder component. Not separately classified as the main hazard driver in this mixture.
Styrene monomer	100-42-5	202-851-5	35%	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). Reactive diluent and principal volatile component contributing to flammability, inhalation, irritation, aspiration, reproductive, repeated-exposure, and environmental hazards.
Polymerisation inhibitor / stabiliser package	Proprietary / not disclosed	Proprietary / not disclosed	<0.1% (not separately stated in the TDS)	Controls premature polymerisation during storage. Identity and exact concentration are retained as proprietary manufacturer information.

This resin's pale yellow colour, per the manufacturer's TDS, is treated as an inherent characteristic of this resin formulation rather than a deliberate colourant addition — the TDS does not describe a factory-mixed pigment package (unlike, for example, this company's Sheet Grade Yellow Resin, which explicitly discloses factory pigmentation). No pigment/colourant component is listed here on that basis.

SECTION 4: FIRST-AID MEASURES

4.1 Description of First-Aid Measures

Eye Contact	Rinse cautiously with clean water for several minutes. Remove contact lenses if present and easy to do — continue rinsing. Obtain medical attention where required.
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Skin Contact	Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical attention if irritation, redness, or a burning sensation develops.
Inhalation	Move the affected person to fresh air. Keep at rest in a position comfortable for breathing. Obtain medical attention where symptoms persist or exposure is significant.
Ingestion	Do not induce vomiting — risk of aspiration into the lungs (chemical pneumonitis). Rinse mouth with water if the person is conscious. Obtain immediate medical attention. 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.
- 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: Avoid a direct high-pressure water jet, which may spread burning liquid.

5.2 Special Hazards Arising from the Substance or Mixture

- Vapours may form flammable mixtures with air and may travel to distant ignition sources.
- Heated containers may rupture. Uncontrolled polymerisation may generate heat, potentially leading to violent rupture of closed containers/drums.
- Combustion/decomposition may produce carbon monoxide, carbon dioxide, styrene vapours, and irritating fumes.

5.3 Advice for Fire-Fighters

- Evacuate the area and fight fire from a safe, protected distance where possible.
- Wear suitable protective equipment and self-contained breathing apparatus (SCBA) where appropriate.
- 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

- Eliminate ignition sources. Restrict unnecessary access to 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**
- Absorb using an inert, non-combustible material such as sand, earth, or vermiculite. Transfer into suitable, labelled containers.
 - For large spills, dike the area to prevent spreading; pump into salvage containers using non-sparking, explosion-proof equipment where vapour concentrations warrant it.
 - Do not allow contaminated absorbent to accumulate in a confined pile — bulk resin-soaked absorbent can self-heat and undergo exothermic polymerization.
 - Dispose through authorised waste handlers — see Section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling

- Handle with adequate ventilation. Avoid breathing vapours/mist.
- Avoid skin/eye contact. Keep away from heat, sparks, flames, and direct sunlight. No smoking.
- Ground/bond transfer equipment; use non-sparking equipment; protect against static discharge — particularly for bulk transfer.
- Keep away from organic peroxides/MEKP except during controlled manufacturing/curing operations. Keep away from incompatible accelerators, reducing agents, acids, bases, and amines. Never return catalyzed/mixed material to the bulk container.
- Keep containers tightly closed. Use the PPE specified in Section 8.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

FLAMMABLE LIQUID — GENUINE STORAGE MARGIN, STILL REQUIRES STANDARD CONTROLS

This product's recommended storage temperature (below 25°C, per TDS) sits a meaningful margin below its confirmed flash point (32°C, per TDS) — roughly 7°C or more, unlike several of this company's other resin products where storage temperature and flash point directly overlap or sit very close together. This is a genuinely safer storage/flash-point relationship, and this SDS does not apply the 'overlap' warning language used for those other products where it does not accurately describe this one. This does NOT reduce the underlying flammable-liquid classification (Category 3) or the need for standard flammable-liquid storage controls below — it means the specified storage temperature, if actually followed, provides real margin rather than routinely operating at or above the flash point.

Storage Temperature	Below 25°C, cool and dry place, per manufacturer TDS. Excessive temperature shortens shelf life and increases self-polymerization risk, independent of the flash-point margin noted above.
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) — explosion-proof electrical fittings, no open flames/smoking/sparks, and proper grounding/bonding still apply, regardless of the storage margin noted above.
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	225 kg drum as supplied, per manufacturer TDS. Keep containers tightly closed when not in use.

7.3 Specific End Use(s)

Binder resin for DMC/SMC compound manufacture. Refer to the product TDS (SPR-TDS-DMC) for gel time (12–18 minutes, specifically at 1.5% MEKP and 25°C, per TDS) and processing parameters. Note the manufacturer's TDS specifies MEKP catalyst only (1.5%), with no cobalt accelerator mentioned — unlike this company's hand-layup/spray-

up-oriented resin products (which use MEKP together with cobalt octoate for room-temperature cure). This is consistent with typical DMC/SMC compression-moulding practice, which is commonly heat/pressure-cured rather than room-temperature redox-cured — this is offered as technical context, not a confirmed statement of this specific product's intended cure mechanism beyond what the TDS states. Do not add cobalt accelerator to this product unless specifically directed by the manufacturer.

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/m³)	ST 100 ppm (425 mg/m³)	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/m³)	STEL 100 ppm (425 mg/m³)	Statutory limit under §41-F

DOWNSTREAM PROCESSING/COMPOUNDING — SEPARATE FROM THIS RESIN'S OWN HAZARDS

Mechanical processing of cured/compounded DMC/SMC parts (drilling, machining, trimming, sanding) may generate composite dust — the specific composition of that dust depends on the customer's own compounding formulation (filler, glass fibre, thickener), not on this resin alone, and is outside the scope of this SDS. Downstream compounding with mineral filler (e.g. calcium carbonate) or glass fibre reinforcement introduces separate exposure considerations governed by those materials' own SDS documents.

8.2 Exposure Controls

- Engineering controls: Local exhaust ventilation at resin-handling, mixing, and bulk-transfer stations. Ensure general workplace ventilation keeps vapour concentrations below the applicable OEL.
- Eye/face protection: Chemical splash goggles; face shield where splashing is possible.
- Hand protection: Chemically resistant gloves suited to styrene/polyester resin systems.
- Body protection: Protective clothing.
- Respiratory protection: Organic-vapour respiratory protection where ventilation is inadequate and where permitted by workplace respiratory-protection procedures.
- General hygiene: Do not eat, drink, or smoke while handling. Wash hands and exposed skin thoroughly after handling and before breaks. Eyewash and safety shower should be readily accessible.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Pale yellow liquid, per manufacturer TDS
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 principal volatile component
Flash Point	32°C (closed cup), per manufacturer TDS (chemist-verified)
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	1.12 g/cm ³ , per manufacturer TDS (chemist-verified)
Solubility in Water	Insoluble / very slightly soluble
Solubility in Organic Solvents	Soluble / miscible in compatible organic solvents and styrene
Partition Coefficient (log K_{ow})	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	600 cPs at 25°C, per manufacturer TDS
VOC Content	Approx. 35% 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 conditions. Uncontrolled polymerisation may occur under excessive heat or contamination.

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, direct sunlight, sparks, open flames, and other ignition sources.
- Prolonged storage above the recommended storage temperature.
- Oxidising agents, organic peroxides (outside controlled curing), incompatible accelerators, reducing agents, acids, bases, and amines.

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, hazardous decomposition may generate carbon monoxide, carbon dioxide, styrene vapour, and irritating fumes.

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; no whole-product toxicological testing data was provided in the manufacturer's TDS.

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

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 into drains, soil, groundwater, or surface water. Styrene is the principal environmental concern in this mixture.

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.

12.3–12.6 Bioaccumulative Potential, Mobility, Other Adverse Effects

A formal PBT/vPvB assessment has not been performed. 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 industrial/hazardous waste handlers. Do not discharge into drains, soil, or waterways.
- 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.
- Cured/compounded DMC/SMC part waste should be evaluated according to its final compounded composition (resin plus customer-added filler/reinforcement), not this resin's composition alone; confirm current requirements with the relevant State Pollution Control Board.
- Empty containers 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 (confirmed by flash point 32°C)
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, flames, oxidisers, organic peroxides, and ignition sources. Transport in tightly closed, approved containers, upright and secured against movement.
Transport in Bulk (Annex II MARPOL/IBC Code)	Not applicable — product transported in 225 kg drums, 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 — this product falls into the Rules' 'highly flammable liquid' band (flash point $\leq 60^{\circ}\text{C}$ but $> 23^{\circ}\text{C}$; confirmed at 32°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. No specific electrical safety, dielectric, or fire-performance certification is claimed for this product beyond its TDS description.

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) · DMC = Dough Moulding Compound · 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 · SMC = Sheet Moulding Compound · 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
Issue Date	8 August 2026
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.