

**SAMRAT POLY RESINS**

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

SAFETY DATA SHEET

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

GLASS FIBER (CHOPPED STRAND MAT)**E-Glass Reinforcement for FRP Composites · 300 & 450 g/m² · Polyester Sizing****SOLID FIBRE REINFORCEMENT — NOT A RESIN OR LIQUID CHEMICAL**

This product is a SOLID glass fibre reinforcement material — it is NOT an unsaturated polyester resin, gelcoat, pigment, or MEKP hardener, and it is not a liquid chemical product. None of the resin-specific hazard information used in this company's resin SDS documents (flammable liquid, styrene content, flash point, UN 1866) or the organic peroxide information used for MEKP Hardener applies to this product.

Glass Fiber (Chopped Strand Mat) is E-glass chopped strand mat reinforcement used with resin systems (unsaturated polyester, vinyl ester, or epoxy) to manufacture fibre-reinforced plastic (FRP) composites. The glass fibre provides rigidity, strength, reinforcement, and structural form to the final composite — it is used together with resin, not as a substitute for it. Supplied in rolls with polyester-compatible sizing, it is intended for industrial and professional use only.

Not for use in applications not approved by the manufacturer, or where uncontrolled airborne fibre/dust exposure may occur without appropriate controls.

SECTION 1: IDENTIFICATION**1.1 Product Identifier**

Product Name	Glass Fiber (Chopped Strand Mat)
Product Type	E-glass reinforcement mat for FRP composites
Chemical Family	Inorganic glass fibre (E-glass) with polyester-compatible organic sizing
Product Code / Internal Reference	GFM
SDS Document Reference	SPR-SDS-GFM, Rev. 01

1.2 Relevant Identified Uses and Uses Advised Against

- Recommended use: Reinforcement material for unsaturated polyester, vinyl ester, and epoxy composite systems, including FRP laminates, boats, water tanks, cooling towers, automotive components, construction composites, moulded fibreglass products, and other manufacturer-approved reinforcement applications. For industrial/professional use only.
- Uses advised against: Applications not approved by the manufacturer, or any use where uncontrolled airborne fibre/dust exposure may occur without appropriate engineering or PPE controls.

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)

Not classified as hazardous under applicable GHS criteria, based on available product information. E-glass chopped strand mat of this type is broadly recognised across the industry as not requiring GHS hazard classification, being a largely inert, insoluble, solid inorganic material. The proprietary organic sizing component is present at a low percentage and is not disclosed in detail; no specific hazard classification is assigned to it without manufacturer confirmation.

2.2 Other Hazards

- Mechanical irritation may occur from direct contact with glass fibres — this is a physical/mechanical effect, not a chemical hazard.
- Cutting, trimming, tearing, grinding, sanding, or machining may generate airborne fibres or particulate dust, which may cause mechanical irritation of the eyes, skin, nose, and throat.
- Individual rolls weigh approximately 30 kg. Use suitable manual-handling techniques or mechanical assistance to reduce the risk of lifting, strain, crush, or dropped-load injuries.
- Loose fibres, trimmings, and off-cuts may present a slipping or tripping hazard if not kept controlled in the work area.
- Good industrial hygiene and dust-control practices should be used — see Section 8.

GLASS FIBRE ≠ CRYSTALLINE SILICA

E-glass is an amorphous (non-crystalline) silicate glass. It is chemically and toxicologically distinct from crystalline silica (quartz) — the two must not be confused. This product is not described as containing free crystalline silica, and the silicosis-related hazard information applicable to respirable crystalline silica dust does not apply to this glass fibre product. This distinction is deliberate, not an oversight, given how often the two are conflated.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	Concentration (% w/w)	Function
E-glass fibres (continuous filament glass converted to chopped strand mat)	65997-17-3 (commonly used generic CAS for continuous-filament/textile-type glass fibre in industry SDS documents — not independently confirmed as this manufacturer's specific designation)	Major component / balance of product (exact percentage not disclosed in the TDS)	Primary structural reinforcement fibre. Amorphous glass — not crystalline silica.
Polyester-compatible sizing / binder system	Proprietary / not disclosed	Low percentage (typical for glass fibre sizing systems; exact concentration not disclosed in the TDS)	Maintains strand integrity, mat handling properties, and compatibility/wet-out with polyester, vinyl ester, and epoxy resin systems. NOT confirmed to contain styrene, polyester resin, epoxy resin, silane, solvent, or formaldehyde — no such chemistry is disclosed in the manufacturer's TDS. Compatibility with polyester resin does not mean this product contains polyester resin.

SECTION 4: FIRST-AID MEASURES

4.1 Description of First-Aid Measures

Eye Contact	Do not rub eyes. Rinse cautiously with clean water for several minutes. Remove contact lenses if present and easy to do — continue rinsing. Seek medical attention if irritation persists.
Skin Contact	Wash gently with soap and cool/lukewarm water. Do not aggressively rub affected skin — this may increase mechanical fibre irritation rather than relieve it. Remove contaminated clothing. Seek medical attention if irritation persists.
Inhalation	If fibres or dust are inhaled, move the person to fresh air. Rinse nose/throat with water if irritation occurs. Seek medical attention if coughing, breathing difficulty, or irritation persists.
Ingestion	Not an expected exposure route during normal industrial handling. Rinse mouth. Seek medical advice if significant ingestion occurs or symptoms develop.

4.2 Most Important Symptoms and Effects, Acute and Delayed

- Skin: mechanical irritation from fibres may cause temporary itching or redness — this is a physical effect of fibre contact, not a chemical burn or sensitisation reaction.
- Eyes: airborne fibres or dust may cause mechanical irritation.
- Inhalation: dust or fibres generated during cutting or grinding may irritate the nose, throat, and respiratory tract.

4.3 Notes to Physician

Treat symptomatically as mechanical/physical irritation. No specific antidote is indicated. This is not a chemical burn, corrosive exposure, or aspiration-hazard scenario — do not apply resin-product first-aid protocols to this product.

SECTION 5: FIRE-FIGHTING MEASURES

Glass fibres themselves are not expected to support combustion. The organic sizing/binder component, and product packaging, may burn or decompose when exposed to fire.

5.1 Extinguishing Media

- Suitable: Use extinguishing media appropriate to the surrounding fire — this may include water spray, foam, dry chemical, or carbon dioxide, depending on the surrounding combustible materials (e.g. packaging, adjacent stored resin products).

5.2 Special Hazards Arising from the Substance or Mixture

- Packaging and organic binder/sizing may burn.
- Fire may generate smoke and decomposition products from the organic sizing or packaging materials.
- Glass fibres are expected to remain largely as a non-combustible residue.

5.3 Advice for Fire-Fighters

Use normal protective equipment appropriate to the surrounding fire. This product does not introduce the flammable-vapour, explosive-mixture, or organic-peroxide-decomposition hazards associated with this company's resin and hardener products.

SECTION 6: ACCIDENTAL RELEASE MEASURES

This is a solid roll/mat product — spill response should reflect that consistency, not a liquid-spill protocol.

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

- Collect loose mats, off-cuts, and fibre material manually where safe to do so.
- Avoid unnecessary tearing or aggressive handling that generates airborne fibres.

- Wear suitable gloves, eye protection, protective clothing, and respiratory protection where significant dust/fibre generation occurs.

6.2 Environmental Precautions

- Prevent fibres from entering drains, where they may cause blockage.

6.3 Methods and Material for Containment and Cleaning Up

- Vacuum dust/fibres using suitable industrial vacuum equipment where necessary.
- Avoid dry sweeping or compressed-air cleaning, which may disperse fibres into the air.
- Place waste material in appropriate bags/containers. Do not use sand, vermiculite, or liquid absorbents — this is not a liquid spill.
- Dispose according to local waste requirements — see Section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling

- Handle rolls carefully to avoid damage. Use suitable mechanical handling methods for heavy rolls — individual rolls weigh approximately 30 kg.
- Avoid excessive fibre release. Minimise tearing/cutting outside controlled work areas.
- Keep work areas clean. Avoid eating or drinking in the work area.
- Wash exposed skin after handling.
- Store rolls securely to prevent falling or rolling.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

This product's storage requirements are based on protecting the material and its packaging, not flammable-liquid precautions. The flammable-liquid storage warning, explosion-proof electrical equipment requirements, and grounding/bonding practices used for this company's resin products do NOT apply to this solid glass fibre product.

Storage Conditions	Store in a cool, dry place away from moisture and direct sunlight, per manufacturer TDS.
Shelf Life	24 months, per manufacturer TDS.
Storage Area	Keep rolls dry; protect from rain, moisture, and excessive humidity, which may affect the sizing and product quality. Keep packaging intact until use.
Incompatible Materials	Not established as a chemical incompatibility concern for this solid, largely inert product. Avoid conditions that degrade packaging or the organic sizing (excessive moisture, heat).
Packaging Material	Supplied in rolls, per manufacturer TDS.

7.3 Specific End Use(s)

Reinforcement for FRP composite manufacture via hand lay-up or machine lamination with unsaturated polyester, vinyl ester, or epoxy resin systems. Refer to the product TDS (SPR-TDS-GFM) for area weight (300 g/m² and 450 g/m²), fibre length (50 mm), and roll specifications.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

No styrene or resin-specific occupational exposure limit applies to this product. Exposure controls focus on airborne glass fibres/dust generated by processing, not chemical vapour.

8.1 Exposure Controls

- Engineering controls: General ventilation for routine handling; local exhaust ventilation at cutting, grinding, or sanding operations; dust/fibre extraction where airborne particulate is generated. Avoid compressed-air cleaning, which disperses fibres.
- Eye protection: Safety glasses with side shields, or chemical-style safety goggles where airborne fibres are generated.
- Hand protection: Work gloves suitable for preventing mechanical fibre irritation.
- Body protection: Long sleeves, long trousers, and protective work clothing.
- Respiratory protection: For normal handling of intact mat, respiratory protection may not normally be required where airborne fibre levels are low. For cutting, grinding, sanding, machining, or dusty operations, use suitable particulate respiratory protection according to workplace exposure assessment and applicable occupational safety requirements.
- No specific occupational exposure limit is invented for this product beyond general good-practice particulate control; if a jurisdiction-specific nuisance dust or fibre limit applies, use that limit.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Fibrous chopped strand mat, per manufacturer TDS
Physical State	Solid
Form	Chopped strand mat
Glass Type	E-glass, per manufacturer TDS
Area Weight (GSM)	300 g/m ² and 450 g/m ² , per manufacturer TDS
Fibre Length	50 mm, per manufacturer TDS
Roll Width	1040 mm, per manufacturer TDS
Tensile Strength	≥2,000 MPa, per manufacturer TDS
Moisture Content	≤0.10%, per manufacturer TDS
Sizing	Polyester-compatible sizing, per manufacturer TDS
Odour	Generally odourless, or a slight sizing/binder odour
pH	Not applicable to this solid glass-fibre mat
Melting / Freezing Point	Not established in the manufacturer's TDS
Initial Boiling Point / Range	Not applicable to this solid glass-fibre mat
Flash Point	Not applicable to inorganic solid glass fibres
Flammability	Glass fibres themselves do not support combustion; organic sizing/packageging may burn — see Section 5
Evaporation Rate	Not applicable
Vapour Pressure	Not applicable
Vapour Density	Not applicable
Solubility in Water	Insoluble
VOC Content	Not established — no product-specific VOC data provided; not invented
Density	Not provided in the manufacturer's TDS. The stated area weight (300/450 g/m ²) is a per-unit-area specification (GSM), not a bulk material density, and should not be confused with one.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Glass fibres themselves are chemically stable and not reactive under normal industrial conditions. No hazardous polymerisation is expected. The uncontrolled-polymerisation, MEKP-contamination, cobalt-accelerator, and peroxide-reaction warnings used for this company's resin products do not apply to this solid glass fibre reinforcement.

10.2 Chemical Stability

Stable under normal storage and handling conditions. Protect from excessive moisture, which may affect the sizing and product quality rather than presenting a stability hazard.

10.3 Possibility of Hazardous Reactions

None expected under normal conditions. Avoid conditions that degrade packaging or the organic sizing (excessive heat, moisture, or fire).

10.4 Conditions to Avoid

- Excessive moisture and humidity, which may affect sizing performance and product quality.
- Fire or excessive heat, which may decompose the organic sizing/binder.

10.5 Incompatible Materials

None established for this solid, largely inert product.

10.6 Hazardous Decomposition Products

Under fire, the organic sizing/binder may decompose, generating smoke and combustion by-products. Glass fibres themselves are expected to remain as a non-combustible residue.

SECTION 11: TOXICOLOGICAL INFORMATION

This product's hazards are predominantly mechanical/physical in nature rather than chemical toxicological effects. No carcinogenicity, mutagenicity, reproductive toxicity, or organ toxicity classification is asserted — reliable, product-specific data supporting such a classification for this glass fibre form is not available, and none should be inferred merely from the material being a glass fibre. This product must not be equated with asbestos or crystalline silica — see the callout in Section 2.

11.1 Information on Toxicological Effects

Skin	Mechanical irritation from fibres may cause temporary itching or redness.
Eyes	Airborne fibres/dust may cause mechanical eye irritation.
Inhalation	Dust or fibres generated during cutting or grinding may irritate the nose, throat, and respiratory tract.
Ingestion	Not an expected route of exposure during normal industrial handling.
Chronic Effects	No carcinogenicity, mutagenicity, reproductive toxicity, or chronic organ toxicity classification is established or asserted for this product.

SECTION 12: ECOLOGICAL INFORMATION

- This product is a largely inorganic, insoluble solid.
- Not expected to present significant aquatic toxicity under normal use, based on its physical form, unless the sizing/additive package indicates otherwise (not established from available data).
- Prevent uncontrolled release of fibres/off-cuts into the environment. Avoid disposal into drains or waterways.
- This product is not readily biodegradable, as inorganic glass fibre.
- Styrene aquatic toxicity data and the H412 classification used for this company's resin products do NOT apply to this product — no such chemistry is confirmed present.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

- Collect waste mat, fibres, trimmings, and off-cuts. Keep loose fibres contained to prevent dispersion.
- Dispose according to local industrial waste requirements. Unused glass mat is not automatically classified as hazardous resin waste — assess based on its own (largely inert, non-hazardous) composition.
- Packaging should be recycled or disposed of where appropriate.
- Cured FRP waste containing both glass fibre and resin should be handled according to the composition of the final composite, not this product's composition alone.

SECTION 14: TRANSPORT INFORMATION

UN Number	Not regulated
Proper Shipping Name	Not regulated as dangerous goods, based on available product classification
Transport Hazard Class	Not regulated
Packing Group	Not applicable
Environmental Hazard	Not classified as a marine pollutant, based on available product information
Special Precautions for User	Transport rolls dry, protected from damage, moisture, and unsecured movement.

Do NOT use UN 1866 / RESIN SOLUTION / Class 3 / Packing Group III for this product — that classification belongs to this company's resin products and does not apply here. Do NOT use UN 3105 / Organic Peroxide Type D / Class 5.2 — that belongs to MEKP Hardener, a separate product.

SECTION 15: REGULATORY INFORMATION

15.1 India

- General workplace dust/particulate and PPE requirements under the Factories Act, 1948 and applicable State Factory Rules apply to industrial handling of this product.
- This product is not subject to the styrene-specific occupational exposure requirements, flammable-liquid handling/storage rules under MSIHC 1989, or organic peroxide transport provisions applied to this company's resin and MEKP products, as none of that chemistry is confirmed present.
- Users must comply with all applicable local, state, national, and waste-handling regulations.

15.2 Claims Not Made

This SDS does not claim this product is formally certified as asbestos-free, silica-free, non-carcinogenic, REACH-compliant, RoHS-compliant, or food-safe. These are general characterisations of E-glass chopped strand mat as a well-established industrial material category, not certifications — any formal certification claim requires actual manufacturer test/specification documentation, which is not included in the TDS reviewed for this SDS.

SECTION 16: OTHER INFORMATION

Abbreviations

CAS = Chemical Abstracts Service · FRP = Fibre-Reinforced Plastic · GHS = Globally Harmonized System of Classification and Labelling of Chemicals · GSM = Grams per Square Metre (area weight) · MPa = Megapascal · SDS = Safety Data Sheet.

Revision Information

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Prepared By	Samrat Poly Resins / Regulatory Department

Reason for Issue	Initial official issue
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This SDS has been prepared based on available technical data, manufacturer/product information, component hazard data, and applicable safety references. The information is provided for safe handling, storage, use, transport, and disposal of the product. Users are responsible for confirming suitability for their specific application and for compliance with current regulations at the time of use.