

MATERIAL SAFETY DATA SHEET



Fibre Reinforced Plastic Rods – FRP Rods

Revision Date: October 2023

SECTION 1: IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 – Product identifier

Product name: Fibre Reinforced Plastic Rod (UV Cured)

1.2 – Relevant identified uses of the substance or mixture and uses advised against

Manufacture of substance: Strength member for telecommunication cables

1.3 – Details of the supplier of the safety data sheet

UNIGEL (UK) LTD	Hikari Composites Sdn Bhd
UNIGEL House	Lot 21, Block A, Lorong Keluli 1C
Unit 7, Park View, Alder Close	Kawasan Perindustrian Bukit Raja
Eastbourne, East Sussex	Seksyen 7, 40000 Shah Alam
BN23 6QE, United Kingdom	Selangor, Malaysia

Contact details:

Tel: +44 (0) 1273 612122	Tel: + 60 (0) 3 3359 5138
Fax: +44 (0) 1273 855717	
Email: info@unigel.com	

1.4 – Emergency telephone number

Telephone number:	As Above (1.3)
Hours of operation:	Mon-Fri: 8:30 – 17:00
Information limitation:	Not applicable

SECTION 2: HAZARDS IDENTIFICATION

2.1 – Classification of the substance or mixture

Product definition:	Mixture
Classification according to Regulation (EC) No. 1272/2008:	Not classified. This product is not considered to present any health hazards during normal use.

2.2 – Label elements

Signal word:	No signal word
Hazard statements:	No known significant effects or critical hazards.
Hazard symbol or symbols:	Not applicable
Indication of danger:	Not applicable
Risk phrases:	This product is not classified according to EU legislation
Safety phrases:	Not applicable
Hazardous ingredients:	Not applicable
Supplemental label elements:	Material safety data sheet available for professional user on request

2.3 – Other hazards

Other hazards which do not result in classification: Not available

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical / Common Name	CAS No:	Wt %:
Fibre Glass	65997-17-3	75-85
Cured Epoxy Resin	None	15-25

SECTION 4: FIRST AID MEASURES

4.1 – Description of first aid measures

Eyes:	Due to dust and fibres, check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
Skin:	Dust and fibres may cause irritation, in case of contact, immediately flush skin with plenty of water. Wash skin thoroughly with soap and water or use recognized skin cleanser. Wash clothing before reuse. Get medical attention if large amount of exposure has occurred.
Inhalation:	Dust and fibres may cause irritation, move exposed person to fresh air. If not breathing or if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
Ingestion:	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Protection of first-aiders:	No action shall be taken involving any personal risk or without suitable training.

4.2 – Most important symptoms and effects, both acute and delayed

Potential acute health effects:	No known significant effects or critical hazards
Over-exposure signs/symptoms:	Repeated skin exposure can produce local skin destruction or dermatitis.

4.3 – Indication of any immediate medical attention and special treatment needed

Notes to physician:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments:	No specific treatment.

SECTION 5: FIRE FIGHTING MEASURES

5.1 – Extinguishing media

Suitable extinguishing media:	Use an extinguishing agent suitable for the surrounding fire. Foam (Specifically trained personnel only) Water fog (Specifically trained personnel only) Dry chemical powder Carbon dioxide Other inert gases (Subject to regulations) Sand or earth
Unsuitable extinguishing media:	Do not use direct water jets on the burning product; they could cause splattering and spread the fire. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

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5.2 – Special hazards arising from the substance or mixture

Hazards from the substance or mixture: None
Hazardous combustion products: Carbon oxides (CO, CO₂), smoke and irritating vapours as products of incomplete combustion.

5.3 – Advice for fire fighters

Special precautions for fire-fighters: Promptly isolate the scene by removing all persons from the facility of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters: Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire fighters (including helmets, protective boots and gloves) conforming to the European standard EN 469 will provide a basic level of protection for chemical incidents.

Additional information: None

SECTION 6: ACCIDENTAL RELEASE MEASURE

6.1 – Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Put on appropriate personal protective equipment.

For emergency responders: Take note of any information in SECTION 8 on suitable and unsuitable materials.

6.2 – Environmental precaution

Accidental spillage and release of material into the environment: Material will settle and disperse along the bottom of waterways if allowed to enter the environment. Inform the relevant authorities if the product has caused environmental pollution.

6.3 – Methods and materials for containment and cleaning up

Small or Large release: Isolate and collect into piles being careful not to generate dust and shovel up and place all into an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

6.4 – Reference to other sections:

See **section 1** for emergency contact information.
See **section 8** for information on appropriate personal protective equipment.
See **section 13** for additional waste treatment information.

SECTION 7: HANDLING AND STORAGE

The information in this section contains generic advice and guidance. It shall emphasise precautions that are appropriate to the identified uses referred to under **subsection 1.2** and the unique properties of the substance mixture.

7.1 – Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (See **section 4** and **section 8**)

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating and drinking areas.

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7.2 – Conditions for safe storage, including any incompatibilities.

Storage condition: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see **section 10**) and elevated temperature. Keep reels in good condition until ready for use. Keep covered away from rain, if left outside in open environment.
Use appropriate containment to avoid environmental contamination.

7.3 – Specific end use(s)

Industrial sector specific solution: Not available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 – Control parameters

Chopped, crushed or heavily processed filaments may produce small amounts of respirable particles. Some of which may include glass fibres

Product/ Ingredient name

Fibre Glass

Exposure limit values

ACGIH TLV (United States). Notes: Particulate dust

TWA: 5 mg/m³, (inhalable fraction)

TWA: 1 fiber/cm³ (respirable fraction)

8.2 – Exposure controls

Appropriate engineering controls: General ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

8.2.1 – Individual protection measure

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to cast off.

Skin protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling the products if a risk assessment indicates this is necessary.
Personal protective equipment for the body, appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: None required under normal conditions.
Where dust and loose fibres could be produced a properly fitted dust respirator should be used. These should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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Thermal hazard:

None required under normal conditions.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 – Information on basic physical and chemical properties

Appearance:	Flexible fibre glass rod
Odour:	No odour
Odour threshold:	Not available
pH:	Not available
Melting point/freezing point:	Not applicable
Initial boiling point and boiling range:	Not applicable
Flash point: (Open cup)	Not applicable
Evaporation rate:	Not available
Flammability (Solid, gas):	Not available
Upper/lower flammability or explosive limits:	Not available
Vapour pressure:	Not available
Vapour density:	Not available
Density:	1.9 – 2.2 g/cm ³
Solubility (ies):	Insoluble in water
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not applicable
Explosive properties:	Not applicable
Oxidising properties:	Not available

9.1 – Other information No additional information

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability:	Stable under normal conditions
Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous reaction will not occur.
Conditions to avoid:	None expected
Incompatible materials:	None expected
Hazardous decomposition products:	Does not decompose at ambient temperature. Primary combustion products are CO, CO ₂ and H ₂ O, other compounds may be released in small quantities.

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1 – Information on toxicological effects

11.1.1 – Relevant hazard classes

Acute toxicity:	Not available
Skin corrosion/irritation:	Dust and loose fibres from breakages and excessive processing may cause irritation
Serious eye damage/irritation:	Dust and loose fibres from breakages and excessive processing may cause irritation
Respiratory or skin sensitisation:	Dust and loose fibres from breakages and excessive processing may cause irritation

Germ cell mutagenicity:	Not available
Carcinogenicity:	Not listed as carcinogenic by OSHA, NTP or IARC
Reproductive toxicity:	Not available
STOT-single exposure:	Not available
STOT-repeated exposure:	Not available
Aspiration hazard:	Not available

11.1.2 – Information on likely routes of exposure

Routes of entry anticipated:	Dermal
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11.1.3 – Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:	Not available
Ingestion:	Not available
Skin contact:	Repeated skin exposure can produce local skin destruction or dermatitis.

11.1.4 – Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short-term potential immediate effects:	Not available
Short-term potential delayed effects:	Not available
Long-term potential immediate effects:	Not available
Long-term potential delayed effects:	Not available
Potential chronic health effects:	Not available

11.1.5 – Potential chronic health effects

Conclusion/Summary:	Not available
General:	No known significant effects or critical hazards
Carcinogenicity:	Not listed as carcinogenic by OSHA, NTP or IARC
Mutagenicity:	No known significant effects or critical hazards
Teratogenicity:	No known significant effects or critical hazards
Developmental effects:	No known significant effects or critical hazards
Fertility effects:	No known significant effects or critical hazards

11.1.6 – Other information:

Not available

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SECTION 12: ECOLOGICAL INFORMATION

General:	Based on chemical/physical information from the literature for this product category, no harmful effect to terrestrial or aquatic habitats would be expected.
Toxicity:	Not available
Persistence and degradability:	Not available
Bio-accumulative potential:	Not available
Mobility in soil:	Not available
Results of PBT and vPvB assessment:	Not available
Other adverse effects:	No known significant effects or critical hazards.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment method:	Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable local regulations. Do not empty into drains, sewers or watercourses.
Hazardous waste:	Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

SECTION 14: TRANSPORT INFORMATION

UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not classified as hazardous
Packing group:	Not applicable
Environmental hazards:	Not classified as hazardous
Special precautions for user:	Not applicable
Transport in bulk according to Annex II of Marpol and the IBC code:	Non known
Usual shipping containers:	Reels

SECTION 15: REGULATORY INFORMATION

15.1 – Safety, health and environmental regulations/legislation specific for the substance or mixture

EC Classification:	Not classified
EC labelling (Symbol, R&S phases):	Not required
OSHA (29CFR 1910.1200):	Not classified as hazardous
Hazard label data:	Not classified
SARA Title III:	Contain no extremely hazardous substances
SARA 311/312 reportable hazard:	None
SARA 313 toxic release program:	Contains no chemicals
Statutory information:	The Health and Safety work etc Act, 1974, Environmental Protection Act. 1990

15.2 – Chemical safety assessment: Complete

(All components of this material are listed on EINECS, DSL, TSCA, METI, AICS and KECI)

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SECTION 16: OTHER INFORMATION

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