Ecopreg Glass/PFA
Material Safety Data Sheet (MSDS)
October 2014

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1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1 Product identifier

Product name: Ecopreg Glass/PFA prepreg, based on various glass fibre fabrics

1.2 Relevant identified uses of the mixture and uses advised against

Composite prepreg. Glass fibres impregnated with a thermosetting polymeric furfuryl alcohol resin.

1.3 Details of the supplier of the safety data sheet

Company name	Composites Evolution Ltd
Address:	4A Broom Business Park, Bridge Way, Chesterfield, S41 9QG, UK
Telephone:	+44 (0)1246 266248
Email:	info@compositesevolution.com

1.4 Emergency telephone numbers

Emergency tel. +44 (0)1246 266248

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2. HAZARDS IDENTIFICATION

2.1 Classification of the mixture (EU DPD Directive 1999/45/EC)

According to the latest information the mixture is not hazardous.

2.2 Label elements

No labels required.

2.3 Other hazards

Glass fibre released during cutting/machining may be mechanically irritating to eyes and skin and irritating to respiratory tract.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains no substances hazardous to health or the environment in concentrations which need to be taken into account within the meaning of Directive 67/548/EEC and Regulation (EC) No 1272/2008.

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4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact:	Flush eyes immediately with plenty of water. Remove lenses if possible. Do not apply neutralizing agents. If eye irritation persists seek medical attention.
Skin contact:	Remove contaminated clothes. Wash skin with water. Soap may be used. If skin irritation develops seek medical attention.
Inhalation:	Move to fresh air. If symptoms persist seek medical attention.
Ingestion:	Rinse mouth and give five lots of water to drink. Never give water to an unconscious person. Seek medical attention if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Eye contact:	Dust or loose fibres from this product may cause temporary mechanical irritation.
Skin contact:	Dust or loose fibres from this product may cause temporary mechanical irritation. Prolonged contact with uncured resin may cause dermatitis.
Inhalation:	Dust or loose fibres from this product may cause mechanical irritation of the nose, throat and respiratory tract.
Ingestion:	Although ingestion of this product is not likely to occur, accidental ingestion may cause illness or irritation of the mouth and gastrointestinal tract.

4.3 Indication of any immediate medical attention and special treatment needed

Not applicable

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5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Alcohol-resistant foam, water spray/fog/mist (not jet), dry chemical powder, carbon dioxide.

5.2 Special hazards arising from the mixture

Containers should be cooled with water spray/removed to safe area. In case of fire toxic gases are formed (carbon monoxide, carbon dioxide and NOx).

5.3 Advice for firefighters

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes. Limit and contain the fire-fighting water. Improper contact with acids may cause exothermic polymerization.

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6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Wear safety goggles and gloves. Ensure adequate ventilation, especially in confined areas.

6.2 Environmental precautions

Do not discharge into drains or rivers.

6.3 Methods and material for containment and cleaning up

Collect in suitable containers for re-use or disposal in an appropriate manner. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

6.4 Reference to other sections

See also sections 8 and 13.

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7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Reduce/avoid exposure and/or contact with uncured product. Avoid inhalation of dust/fumes generated during processing operations. This material may contain trace amounts of furfuryl alcohol (CAS 98-00-0). Monomer vapours may be released when the material is heated. Use local exhaust ventilation.

7.2 Conditions for safe storage, including any incompatibilities

Store in original containers/packaging in cool, well ventilated area. Store in a freezer at -18°C for long periods. Keep away from food and drink. Keep away from heat sources, oxidizing agents, acids, peroxides.

7.3 Specific end use(s)

See information supplied by the manufacturer

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

No control parameters available

8.2 Exposure controls

Engineering controls:	Ventilation and local exhaust.
Respiratory protection:	Approved dust mask/respirator when cutting/machining/sanding cured product.
Hand protection:	Gloves – natural rubber, nitrile etc. Barrier cream.
Eye protection:	Safety goggles when cutting/machining/sanding cured product.
Skin protection:	Protective clothing/apron.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Form/appearance:	Viscous liquid impregnated fabric
Colour:	Dark brown
Odour:	Slight
Relative density:	1.8-2.0 depending on fibre type and resin content.
Solubility:	Resin is sightly water soluble and soluble in ethanol, acetone.
Flash point:	Not determined

Decomposition temperature:	Resin polymerizes and hardens at temperatures >80°C.
Explosive properties:	Exothermic polymerization in the presence of acids.
Volatile organic compound (VOC):	Negligible

10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable under recommended storage conditions. The resin will polymerize and harden at elevated temperatures (>80°C).

10.2 Chemical stability

Stable under ambient conditions. The viscosity of the resin and the stiffness of the prepreg will increase over time.

10.3 Possibility of hazardous reactions

Exothermic polymerization of the resin in the presence of strong acids or when heated.

10.4 Conditions to avoid

Avoid contact with heat sources, oxidizing agents, strong acids, peroxides.

10.5 Incompatible materials

The resin reacts violently with oxidants and strong acids (polymerization).

10.6 Hazardous decomposition products

Upon decomposition emits carbon monoxide, carbon dioxide and NOX.

11. TOXICOLOGICAL INFORMATION

11.1 Toxicological information

No data available.

12. ECOLOGICAL INFORMATION

No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Uncured material:	Incinerate or dispose of as chemical waste in accordance with local regulations.
Cured material:	Incinerate or dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

Not classified as dangerous goods.

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15. REGULATORY INFORMATION

No data available.

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16. OTHER INFORMATION

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.