SAFETY DATA SHEET
Easy-Preg Surface Layer

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product name	Easy-Preg Surface Layer Pre-preg
Company	Easy Composites Ltd Unit 39 Park Hall Business Village Longton, Stoke-on-Trent ST3 5XA United Kingdom
Email	sales@easycomposites.co.uk
Telephone	+44 (0)1782 454499

2. HAZARDS IDENTIFICATION

Classification Of The Substance Or Mixture

Classification according to Regulation (EC) No 1272/2008 and amendments
Skin Corrosion / Irritation Hazard Category 2
Skin Sensitizer Hazard Category 1

Classification according to EU Directives 67/548/EEC or 1999/45/EC
Xi - Irritant
R38 - Irritating to skin.
R43 - May cause sensitization by skin contact.

Label Elements

Hazard Statements
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.

Precautionary Statements
P264 - Wash face, hands and any exposed skin thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
P321 - Specific treatment (see supplemental first aid instructions on this label).
P362 + P364 - Take off contaminated clothing and wash it before reuse.
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.
P501 - Dispose of contents/container in accordance with local and national regulations.

Other Hazards
Polymerisation may occur from excessive heat, contamination or exposure to direct sunlight. By excessive exposure to dust, eye and respiratory tract irritation is possible.

RESULTS OF PBT AND Vpvb ASSESSMENT
Not determined

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients	Conc. %	EC No.	Classification	Classification EC CLP
Epoxy/phenolic resin	15 - 40	-	Xi; R36/38 R43 N; R51/53	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin sens. 1 (H317) Aq. Chronic 2 (H411)
Poly(aromatic glycidyl ether) #2	5 - 10	-	Xi; R36/38 R43 N; R51/53	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)
Imidazole catalyst 38668-46-1	1-5	254-074-6	Xn; R22 Xi; R41	Acute Tox. 4 (H302) Eye Dam. 1 (H318)
May be supplied on one of the following carrier(s):				
Carbon Fiber 7440-44-0	-	231-153-3	Not Classified	Not Classified
Fiberglass	-	-	Not Classified	Not Classified

4. FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation Remove to fresh air. If breathing is difficult, give oxygen. Obtain medical advice if there are persistent symptoms.

Eye contact Not an expected route of exposure.

Skin contact Wash immediately with plenty of water and soap. Remove contaminated clothing and shoes without delay. Obtain medical attention. Do not reuse contaminated clothing without laundering. Destroy or thoroughly clean shoes before reuse.

Ingestion Not an expected route of exposure.

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

None known

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

Not applicable

5. FIRE FIGHTING MEASURES

5.1. Extinguishing media Use water spray or fog, carbon dioxide or dry chemical.

5.2. Special hazards None known

5.3. Advice for firefighters Firefighters, and others exposed, wear self-contained breathing apparatus. Wear full firefighting protective clothing. See MSDS Section 8 (Exposure Controls/ Personal Protection).

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment, procedures Where exposure level is not known, wear approved, positive pressure, self-contained respirator. Where exposure level is known, wear approved respirator suitable for level of exposure.

6.2. Environmental precautions None known

6.3. Methods & material for cleaning up Sweep up into containers for disposal. Flush spill area with water.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling	Avoid prolonged or repeated contact with skin. Wash thoroughly after handling.
Special Handling	Heating or curing of unused rolls or sheets of product prior to disposal is not recommended. Heating a large mass of product can lead to a rapid decomposition reaction, generating heat, smoke and possibly fire.
7.2. Conditions for safe storage, including any incompatibilities	Store in accordance with local, state, and federal regulations.
7.3. Specific end use(s)	Refer to Section 1 or Exposure Scenario if applicable.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

8.1.1. Exposure Limit Values

7440-44-0 Carbon Fiber United Kingdom: WEL (Workplace Exposure Limits) Not established
Europe ILV (Indicative Limit Values) Not established
Other Value 3 fibers/cc

Use	**Route**	**DNEL**	**Effects Type**
Fiberglass			
Worker	Inhalation	0.17mg/m^3	Long term, systemic
Worker	Dermal	5.79 mg/kg	Long term, systemic

Compartment	**PNEC**
Fresh water	0.32 ug/L
Marine water	0.032 ug/L
Intermittent water release	0.22 ug/L
Sewage treatment plant	58 mg/L
Sediment (fresh water)	0.05172 mg/kg
Sediment (marine water)	0.005172mg/kg
Soil	0.012 mg/kg

8.2. Exposure controls

8.2.1. Appropriate engineering controls	Where this material is not used in a closed system, good enclosure and local exhaust ventilation should be provided to control exposure when spraying or curing at elevated temperatures.
8.2.2. Individual protection measures	Food, beverages, and tobacco products should not be carried, stored, or consumed where this material is in use. Before eating, drinking, or smoking, wash face and hands thoroughly with soap and water.
Eye / face protection	Wear eye/face protection such as chemical splash proof goggles or face shield. Eyewash equipment and safety shower should be provided in areas of potential exposure.
Skin protection - Hand	Wear impermeable gloves. Consider the porosity and elasticity data of the glove manufacturer and the specific conditions in the work place. Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred. The chemical resistance depends on the type of product and amount of product on the glove. Therefore gloves need to be changed when in contact with chemicals. Due to many conditions (e.g. temperature, abrasion) the practical usage of a chemical protective glove in practice may be much shorter than the permeation time determined through testing.

Skin protection - Other	Avoid skin contact. Wear impermeable gloves and suitable protective clothing. Barrier creams may be used in conjunction with the gloves to provide additional skin protection.
Respiratory protection	Where exposures are below the established exposure limit, no respiratory protection is required. Where exposures exceed the established exposure limit, use respiratory protection recommended for the material and level of exposure. A full face piece respirator also provides eye and face protection. Cutting, grinding or sanding of parts fabricated after curing may create respirable dust particles. Respiratory protection appropriate for this dust may be required. Refer to components listed above for potential hazardous components in the dust.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Resin impregnated on structural fabric or fiber
Colour	Gray
Odour	Slight
Solids Content	Non-volatile components in BOM out

10. STABILITY AND REACTIVITY

10.1. Reactivity	
10.2. Chemical stability	Stable
10.3. Possibility of hazardous reactions	Polymerization May occur. Uncontrolled polymerization may cause evolution of heat and increase in pressure that could result in the rupture of sealed containers. Avoid exposure to heat, strong oxidizing and reducing agents, strong alkalies.
10.4. Conditions to avoid	Avoid exposure to excessive heat, strong acids and alkalis, oxidizing agents, and Open flame.
10.5. Incompatible materials	Strong acids, bases, oxidizing agents
10.6. Hazardous decomp. products	Oxides of carbon, Oxides of nitrogen, Toxic gases/vapours

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Skin corrosion/irritation	Causes skin irritation
Serious eye damage	Not Classified
Respiratory or skin sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	Not Classified
Carcinogenicity	Not Classified
Reproductive toxicity	Not Classified
STOT-single exposure	Not Classified
STOT-repeated exposure	Not Classified
Aspiration hazard	Not Classified

11.1.4. Toxicological Information

Acute Toxicity Data		
Oral Rat	Acute LD50	Not an expected route of exposure
Dermal Rabbit	Acute LD50	>2000 mg/kg
Inhalation Rat	Acute LC50 4 hr	Not an expected route of exposure
Local Effects On Skin And Eye		
Acute Irritation	Skin	Irritating
Acute Irritation	eye	Not an expected route of exposure
Allergic Sensitization		
Sensitization	Skin	Sensitizing
Sensitization	respiratory	Not an expected route of exposure
Genotoxicity	No data	

11.1.7. Information on likely routes of exposure Dermal.

Other Information The product toxicity information above has been estimated.

Further information Epoxy / phenolic resin has acute oral (rat) and dermal (rabbit) LD50 values of >5000 mg/kg and >2000 mg/kg, respectively. Direct contact may cause mild eye irritation. Prolonged or repeated skin contact may cause irritation, and in rare instances, sensitization. This resin has been reported to have tested positive for mutagenicity in the standard Ames screening test as well as in a mouse lymphoma cell point mutation assay.

Poly(aromatic glycidyl ether) # 2 has an oral (rat) LD50 and dermal (rabbit) LD50 values of >5,000 mg/kg and >2,000 mg/kg, respectively. A 4-hour inhalation LC50 (rat) value of >700 mg/m3 has been reported. Prolonged or repeated skin contact may cause allergic skin reactions. This material produced moderate skin irritation and mild to moderate eye irritation in animal tests. This material has shown positive results in vitro screening tests for mutagenicity.

When Ingested, Poly(aromatic glycidyl ether) has produced central nervous system effects in laboratory animals. Chronic ingestion caused reduced weight gain and death in laboratory animals. The oral (rat) LD50 and dermal (rabbit) LD50 values have also been reported to be ~10 gm/kg and greater than 20 ml/kg, respectively. The literature reports several cases of asthmatic symptoms developing in workers due to occupational exposure to this polymer.

Imidazole catalyst has an acute oral (rat) LD50 and acute dermal (rabbit) LD50 of >1,000 mg/kg and >2,000 mg/kg respectively. This material caused severe eye irritation in rabbits but was not irritating to rabbit skin.

Carbon fibers may cause mechanical irritation of the eyes, skin, nose and throat. Airborne carbon fibers are not considered respirable. A typical carbon fiber may be characterized as having a diameter of 5-7 microns and a length greater than 100 microns. Fibers with diameters greater than 3.5 microns are not considered respirable.

Fiberglass is considered a nuisance particulate which will not cause adverse health effects other than respiratory congestion or irritation.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Toxicity, Persistence And Degradability, Bioaccumulative Potential, Mobility In Soil, Other Adverse Effects

Environmental exposure from substances of this preparation are limited due to the physical form of the product. This material is not classified as dangerous for the environment.

12.4. Mobility in soil	Not available
12.5. Results of PBT and vPvB assessment	Not determined
12.6. Other adverse effects	Not available

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods	The Easy Composites encourages the recycle, recovery and reuse of materials, where permitted. If disposal is necessary, The Company recommends that organic materials, especially when classified as hazardous waste, be disposed of by thermal treatment or incineration at approved facilities. All local and national regulations should be followed.

14. TRANSPORT INFORMATION

Further information	The product is not classified as dangerous for carriage.

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	**Ozone Depleting Substances (Regulation (EC) No 1005/2009):** Not applicable **Persistent Organic Pollutants (Regulation (EC) No 850/2004):** Not applicable **Prior Informed Consent (Regulation (EC) No 689/2008):** Not applicable **Substances subject to Authorization (Annex XIV of Regulation (EC) No 1907/2006):** Not applicable This product is defined as an article according to REACH and therefore not subject to Authorization. **Substances subject to Restrictions for certain applications(Annex XVII of Regulation(EC)No 1907/2006):** Not applicable **Water Endangering Class (Germany):** Not a water pollutant according to VwVwS, 17.05.1999
Inventory Information	**European Economic Area (including EU):** This product is an article that does not intentionally release substances under normal conditions of use and is therefore exempt from the registration requirements under the REACH Regulation (EC) No. 1907/2006. **United States (USA):** All components of this product are included on the TSCA Chemical Inventory or are not required to be listed on the TSCA Chemical Inventory. **Canada:** All components of this product are included on the Domestic Substances List (DSL) or are not required to be listed on the DSL.

Australia: All components of this product are included in the Australian Inventory of Chemical Substances (AICS) or are not required to be listed on AICS.

China: All components of this product are included on the Chinese inventory or are not required to be listed on the Chinese inventory.

Japan: All components of this product are included on the Japanese (ENCS) inventory or are not required to be listed on the Japanese inventory.

Korea: All components of this product are included on the Korean (ECL) inventory or are not required to be listed on the Korean inventory.

Philippines: All components of this product are included on the Philippine (PICCS) inventory or are not required to be listed on the Philippine inventory.

Switzerland: All components of this product are exempt from the new substance notification requirements for Switzerland (SR 813.11 art. 16-17).

15.2. Chemical safety assessment No Chemical Safety Assessment has been carried out.

16. OTHER INFORMATION

Component Risk and Hazard Phrases	
Epoxy/phenolic resin	H315 - Causes skin irritation. H319 - Causes serious eye irritation. H317 - May cause an allergic skin reaction. H401 - Toxic to aquatic life. H411 - Toxic to aquatic life with long lasting effects. R43 - May cause sensitization by skin contact. R36/38 - Irritating to eyes and skin. R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Poly(aromatic glycidyl ether) #2	H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H411 - Toxic to aquatic life with long lasting effects. R43 - May cause sensitization by skin contact. R36/38 - Irritating to eyes and skin. R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Imidazole catalyst	H302 - Harmful if swallowed. H318 - Causes serious eye damage. R22 - Harmful if swallowed. R41 - Risk of serious damage to eyes.
Further information	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This 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 other process.