

BCM GRC Ltd,

Unit 22,
Civic Industrial Park,
Whitchurch.
Shropshire.
SY13 1TT

GRC Safety Data Sheet 1 of 5

Rev:12:10:01

1. PRODUCT AND COMPANY IDENTIFICATION

<i>Product Name</i>	GRC
<i>Product Description</i>	Glass fibre Reinforced Concrete
<i>Manufacturer/Supplier</i>	BCM GRC Limited
<i>Address</i>	Unit 22 Civic Industrial Park Whitchurch Shropshire SY13 1TT
<i>Phone Number</i>	01948 665321
<i>Fax Number</i>	01948 666381

2. COMPOSITION/INFORMATION ON THE COMPONENTS

<i>Hazardous Components in Product</i>	The lime, calcium silicates and alkalis within the cement are partially soluble when mixed with water in the production process which will give rise to a potentially hazardous solution. Hexavalent chromium salts in cement are soluble when mixed with water in the production process and will give rise to a potentially hazardous solution. This is less of a hazard with GRC in its cured state.
<i>Chemical Characteristic</i>	Cementitious composite formed from Portland Cement, glass fibre and dried silica sand.

3. HAZARD IDENTIFICATION

<i>Main Hazards</i>	GRC may have abrasive edges and fibres protruding from the surface which may cause skin irritation or abrasions. When cut, drilled or ground, dust may be formed.
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4. FIRST AID MEASURES

<i>Eye Contact</i>	If dust contacts the eye surface, irrigate with plenty of clean water and obtain medical advice.
<i>Skin Contact</i>	Wash dust and particles from skin, if skin is damaged seek medical advice.
<i>Ingestion</i>	Unlikely to occur, however seek medical advice if required.
<i>Inhalation</i>	Remove from exposure, seek medical advice.

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5. FIRE FIGHTING MEASURES

Extinguishing Media

Not combustible.
Select extinguishing agent appropriate to other materials involved.

Special Hazards of Product

Combustion will produce smoke, carbon dioxide and carbon monoxide.

Protective Equipment for Fire-Fighting

Wear self contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Wear appropriate protective clothing, including gloves, dust masks, safety goggles and hearing protection, when handling, cutting, drilling or grinding. Remove any waste material creating the minimal amount of airborne dust and transfer to a waste skip. Dust can be minimised by the addition of water.

Spillage

7. HANDLING AND STORAGE

Handling

Carry out any drilling, cutting or grinding in a well ventilated area and where possible with dust extraction equipment. Avoid contact with eyes and skin.

Storage

Units should be stored in a safe and stable manner, in their original packaging, on pallets, single stacked on solid level ground. Other materials or items should not be stored on top of units.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards

10mg/m³ total inhalable dust and
5mg/m³ respirable dust on a time
weighed average exposure of 8 hrs.

Engineering Control Measures

Where reasonably practicable dust
exposures should be controlled by
engineering methods.

Respiratory Protection

Respiratory protection should be worn
to ensure that personal exposure is
less than the Occupational Exposure
Limited.

Hand Protection

Wear suitable durable gloves.

Eye Protection

Wear safety goggles when working
with GRC.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State

Solid, (when cured).

Colour

Grey or white unless pigments are
introduced in production.

Odour

Not Applicable (N/A).

pH

pH of wet cement 11-14

Boiling Range/Point (°C)

N/A

Flash Point (°C)

N/A (not flammable)

Melting Point

N/A

Explosive Properties

N/A (not explosive)

Freezing Point

N/A

Viscosity

N/A

Density

1800-2000 kg/m³

Solubility in Water

N/A

10. STABILITY AND REACTIVITY

Stability

Stable under normal conditions.

Conditions to Avoid

Non under normal conditions.

Materials to Avoid

Non under normal conditions.

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11. TOXICOLOGICAL INFORMATION

Acute Toxicity
Irritancy – Eyes

Low order of acute toxicity.
Mild exposure to dust may cause soreness. Repeated and untreated exposure can lead to ulceration of the eye.

Irritancy - Skin

Handling cured GRC without gloves increases the risk of irritation and abrasions. Prolonged exposure to sensitive skin can lead to allergic dermatitis.

Irritancy – Breathing

High repeated exposures in excess of the OEL may cause coughing and breathing problems.

12. ECOLOGICAL INFORMATION

Ecotoxicity

GRC products are expected to be non-hazardous to aquatic species.

Bio-accumulation

GRC products are not expected to bioaccumulate.

13. DISPOSAL

Product Disposal

Arrange for disposal via a licensed waste contractor.

Packaging Disposal

Empty packaging should be removed by a licensed waste contractor. Pallets should be returned by arrangement or reused.

14. TRANSPORT INFORMATION

UN Number

Not classified as hazardous

UN Class

Not Listed

UN Packaging Group

N/A

15. REGULATORY INFORMATION

R phrases

None Assigned.

S phrases

Wear suitable protective clothing.
In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice.
Keep out of reach from children.

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16. OTHER INFORMATION

Uses and Restrictions

Customers are urged to ensure that the product is entirely suitable for their own purpose. It is the customer's responsibility to ensure that a suitable and sufficient assessment of the risks created by the use of the product is undertaken.

UK Legislation

Health and Safety at Work Act, 1974, and relevant Statutory Provisions.
SI 1999/437: The Control of Substances Hazardous to Health Regulations.

UK Guidance Publications

SI No 2839 1991 Environmental Protection (Duty of Care) Regulations.
General Approved Code of Practice to COSHH Regulations, HSE.

Footnote

The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. Please consult our technical department prior to use.
