1. IDENTIFICATION OF THE SUBSTRATE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name/designation: Caltech G-Mat + G-Mat Detail.

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

Main use category: Industrial & professional uses.

1.3 Manufacturer/Supplier

Supplier:
Alumasc Building Products Ltd
White House Works, Bold Road, Sutton, St Helens, Merseyside, United Kingdom, WA9 4JG
Tel: +44 (0)1744 648400
e-mail: technical@alumascroofing.com

1.4 Manufacturer/Supplier

Emergency telephone: 01744 648 400 - (Mon-Thurs – 08.30-17.00 Fri – 08.30-16.00)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008:
Not classified according to current regulations.

Routes of entry:
Ingestion, inhalation, skin and eye contact.

Health effects:

Ingestion:	Ingestion of the material is unlikely. However, ingestion of the material may cause gastrointestinal disturbance.
Inhalation:	Breathing fiberglass dusts and particulates may cause irritation of the nose, throat and respiratory tract.
Skin contact:	Fiberglass dusts and particulates may cause temporary irritation.
Eye contact:	Fiberglass dusts and particulates may cause temporary irritation to the eyes.

Environmental effects:
Long-term exposure to fiberglass environment may cause temporary effects.

2.2 Labelling according to Regulation (EU) 1272/2008

Not classified according to current regulations.

2.3 Other hazards

No relevant data available.

3. COMPOSITION AND INFORMATION ABOUT THE COMPONENTS

3.1 Substance

Glass-fibre reinforcement matting.

3.2 Mixture

Ingredient	Concentration %	CAS No.	EC No.	CLP Classification
Glass	93.05 – 96.65	65997-17-3	266-046-0	Not classified
Sizing*	0.35 – 1.35	-	-	Not classified
Binder	3.0 – 5.4	-	-	Not classified
Water	0 – 0.2	-	-	Not classified
*Sizing is a mixture of non-reactive high molecular weight polymers, applied to the glass strands, most of which are not listed as hazardous substances. Any hazardous materials that are used are considered a negligible risk, as the concentration is <0.1% of total weight and they are polymerised during the production of glass fibres.				

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice: If possible, remove affected person from source of contamination.

Eye contact: Check/remove any contact lenses from the eyes before rinsing. Wash eyes with plenty of water for at least 15 minutes and get medical attention if symptoms persist.

Skin contact: Wash skin with copious amounts of soap and water. Do not rinse with warm water, as this will open the pores and allow the fibreglass to penetrate more deeply. If fibreglass penetrates the skin, use a wash cloth to help pull out the strands. To avoid further penetration, do not rub or scratch affected skin. Get medical attention if irritation continues. Make sure to avoid using compressed air to remove fibreglass from skin.

Inhalation: Immediately remove the affected person to fresh air. Get medical attention if irritation continues.

Ingestion: Normally, ingestion of this material is unlikely. If it does occur, watch the person for several days to make sure that gastrointestinal disturbance does not occur. Do not let the person vomit unless required by medical personnel. If disturbance persists, get medical help.

4.2 Most important symptoms and effects, both acute and delayed

Not expected to present a significant hazard under anticipated conditions of normal use.

4.3 Indication of any immediate medical attention and special treatment needed

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:
CO_2, foam, dry powder. Use extinguishing media for the appropriate situation.

Unsuitable extinguishing media:
No specific information.

5.2 Special hazards arising from the substance or mixture

Primary combustion products are carbon monoxide, hydrogen, carbon dioxide and water.
Avoid breathing fire vapours.

5.3 Advice for fire-fighters

Material is non-flammable, but packaging may burn. Remove containers away from fire and water cool.
Use appropriate protective clothing and an approved respirator during fire-fighting.

6. ACCIDENTIAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

When cleaning a spillage outside normal working area, wear suitable protective clothing such as nitrile gloves and suitable goggles. Avoid contact with skin and eyes.

6.2 Environmental precautions

In case of release to land, the material should be scooped up as waste and put into a special container and stored in a designated area. In case of release of water, the material will sink and disperse along the bottom of waterways or ponds and cannot be easily removed after it is waterborne. However, the material is non-hazardous in water. In case of any contamination of watercourses, contact relevant authorities.

6.3 Methods and materials for containment and cleaning up

See Section 6.2 above.

6.4 Reference to other sections

Personal protection covered in Section 8.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Keep the material inside its packaging, to prevent damage to product and minimise generation of dust. Maintain a clean work area and avoid generation of fibreglass due to improper handling.

7.2 Conditions for safe storage, including any incompatibilities

Store in the tightly closed original container in a dry place.

7.3 Specific end use(s)

No specific data available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Workplace Exposure Limits (WEL):

Ingredient	Time Weighted Average (Twa) 8 Hours	Short Term Exposure Limit (Stel) 15 Mins
Non-respirable fibres and particulates	10mg/m3 (Total dust)	N/A
Respirable particulates	5mg/m3 (Respirable fraction) (TWA =Time Weighted Average)	N/A
Glass filaments are not respirable as they are over 3µm in diameter and have been shown not to cause lung cancer.		

8.2 Exposure controls

Appropriate engineering controls:
No specific data available.

Personal protective equipment:

Eye protection:	Wear safety glasses with side-shields.
Skin protection:	Wear suitable gloves. The glove material has to be impermeable and resistant to the Product. Test the durability of the gloves before use. Protective gloves should be replaced at first signs of wear. Protective clothing to include safety shoes, long-sleeved working clothing, long trousers).
Respiratory protection:	Wear a suitable mask when working in an environment where dust concentration is high.

Environmental exposure controls:
In case of any contamination of watercourses, contact relevant authorities.
See also measures detailed in Sections 6 & 7.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	White or off-white solid.
Odour:	None.
Melting point/freezing point:	>800°C.
Boiling point/range:	N/A.
Flash point:	N/A.
Evaporation rate:	N/A.
Flammability:	Not flammable.
Vapour density (air = 1):	N/A.
Relative density:	2.6.
Solubility in H2O.	Insoluble.
Autoignition temperature:	N/A.

9.2 Other information

No data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No hazardous reactions under normal conditions of use.

10.2 Chemical stability

This product is extremely stable under normal temperature conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions under normal conditions of use.

10.4 Conditions to avoid

None.

10.5 Materials to avoid

None.

10.6 Hazardous decomposition products

No dangerous decomposition products when stored and handled correctly.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:	Not classified.
Skin corrosion/irritation:	Not classified, but fibreglass dusts may cause irritation to skin.
Serious eye damage/irritation:	Not classified, but fibreglass dusts may cause irritation to eyes.
Respiratory sensitisation:	Not classified.
Skin sensitisation:	Not classified.
Germ cell mutagenicity:	Not classified.
Carcinogenicity:	Not classified.
Reproductive toxicity:	Not classified.
STOT-single exposure:	Not classified, but fibreglass dusts may cause coughing, sneezing, as well as irritation to nose and throat. Inhalation of large quantities may cause difficulty in breathing, congestion and chest tightness. Ingestion of fibreglass dusts may cause irritation to throat, stomach and gastrointestinal tract.
STOT-repeated exposure:	Not classified.
Aspiration hazard:	Not classified.

12. ECOLOGICAL INFORMATION

12.1 Ecological information

Product is not classified as an environmental hazard according to current regulations.

12.2 Persistence & degradability

Product is not readily biodegradable.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

This mixture contains no PBT or vPvB components at levels of 0.1% or higher.

12.6 Other adverse effects

No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Non-hazardous. All waste material and packaging must be disposed of in accordance with local/national waste disposal regulations and environmental controls.

14. TRANSPORT INFORMATION

	ADR/IATA	IMDG
14.1 UN number	None	
14.2 Proper shipping name	None	
14.3 Transport hazard class(es)/marks	None	
14.4 Packing group/Labels	None	
14.5 Environmental hazards	None	

14.6 Special precautions for user	Rolling & moisture should be avoided during transit
14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code"	Not applicable

15. REGULATORY INFORMATION

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

Prohibition/Restriction	
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII):	Not applicable
REACH - Candidate list of substances of very high concern for authorisation (Article 59):	None of the components are listed
REACH - List of substances subject to authorisation (Annex XIV):	Not applicable
REACH information:	All substances contained in this product are pre-registered or registered by our upstream suppliers and/or excluded from the regulation and/or exempted from the registration.

15.2 Chemical safety assessment

Not applicable.

16. OTHER INFORMATION

Hazard statements for components in Section 3:
Not classified.

Sectors of use/relevant identified uses of the mixture:

SU19:	Building and construction work.
SU22:	Professional uses: Public domain (administration, education, entertainment, services, craftsmen).

Uses advised against:

SU21:	Consumer uses: Private households / general public / consumers.

Full text of other abbreviations:

STOT SE:	Specific Target Organ Toxicity - Single Exposure
ADR:	The European Agreement on the International Transport of Dangerous Goods by Road
CAS:	Chemical Abstracts Service
GHS:	Globally Harmonized System
IATA:	International Air Transport Association
IMDG:	International Maritime Code for Dangerous Goods
MARPOL:	International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978.
REACH:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency.
WEL:	Workplace Exposure Limit

Training:
This material should only be used by trained personnel.
All the information supplied on this data sheet applies only when the product is used for the prescribed application and in accordance with the directions for use.
Please make this data available to all persons involved with the production, transportation and use of this product.

The contents and format of this SDS are in accordance with EEC Commission Directive 1999/45/EC, 67/548/EC, 1272/2008/EC and EEC Commission Regulation 1907/2006/EC (REACH) Annex II.

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