

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

1.1 Product identifier

Trade name/designation: Caltech G-Mat-UV Reinforcement+ Caltech G-Mat-UV Detail Reinforcement

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

Synonyms Chopped Strand Mat, CSM, Continuous Filament Mat, CFM

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

Regulatory Status	This product is not classified as hazardous according to the European Regulation N° 1272/2008 (CLP) Continuous Filament Glass fibre (CFGF) Products are Articles Products which meet the definition of Articles according to Art. 3(3) – Definitions - of the Regulation (EC) No. 1907/2006 (REACH) (an object which during production is given a special shape, surface or design, which determines its function to a greater degree than its chemical composition) are not regulated by Regulation (EC) No. 1272/2008 (CLP)
Other Information	As manufactured continuous filament glass fibres are non-respirable. May cause temporary skin and mucous membranes itching due to mechanical abrasion effect of fibres. Under normal conditions of use, these products may release dust and non-respirable fibres (Particulates Not Otherwise Regulated). Under severe process conditions (e.g. shredding, crushing), these products may release very small amount of respirable particulate, some of which may be fibre-like in terms of l/d ratio (so-called "shards"). See Section 8 for Exposure Limit Data

3. COMPOSITION AND INFORMATION ABOUT THE COMPONENTS

CFGF products are made of glass which is given a specific shape (filament) and dimension (filament diameter). A surface treatment (sizing) is applied to the filaments which are gathered to form a strand. The strand is further processed into a specific product design according to the downstream use of the article. The sizing is a mixture of chemicals, i.e. coupling agent, film former and polymeric resin/emulsion. The sizing content is usually below 3 %
For Chopped Strand Mat (CSM) and Continuous Filament Mat (CFM) products, a binder is applied in a secondary step to form the mat. The binder is a mixture of polymeric resin and surfactant. The content of sizing and binder is usually below 15% of the product weight

4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact	• DO NOT rub or scratch eyes Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes If eye irritation persists: Get medical advice/attention
Skin contact	• Wash off immediately with soap and plenty of cold water DO NOT use warm water because this will open up the pores of the skin, which will cause further penetration of fibres and dust DO NOT rub or scratch affected area

Use a wash cloth to help remove fibres and dust
If fibres are seen penetrating from the skin, the fibres can be removed by applying and removing adhesive tape so that the fibres adhere to the tape and are pulled out of the skin. If skin irritation persists, call a physician.

Inhalation

- Move victim to fresh air
- If symptoms persist, call a physician

Ingestion

- Rinse mouth with water and drink water to remove fibres from the throat
- If symptoms persist, call a physician

5. FIRE-FIGHTING MEASURES

Flammable properties

- Continuous Filament Glass fibre products are not flammable, are incombustible and do not support combustion. Only the organic part is combustible and could release small quantities of undetermined hazardous substances in case of major and prolonged heat or fire

Suitable extinguishing media

- Use CO2, dry chemical, or foam
- Water spray or fog

Protective equipment and precautions for firefighters

- As in any fire, wear self-contained breathing apparatus (SCBA) and full firefighting protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

- Avoid contact with eyes and skin
- Avoid creating dust
- Use personal protections recommended in Section 8

Methods for cleaning up

- Avoid dry sweeping
- Avoid creating dust
- Take up mechanically, placing in appropriate containers for disposal
- Pick up and transfer to properly labeled containers
- Use an industrial vacuum cleaner with a high efficiency filter to clean up dust and fibre contamination
- After cleaning, flush away traces with water

7. HANDLING AND STORAGE

Precautions for safe handling

- Prevent and/or minimize dust formation
- Wear appropriate personal protective equipment in case of direct contact with the product

Storage Conditions

- Keep product in packaging until use to minimize potential dust generation

Incompatible materials

- None known

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

As manufactured continuous filament glass fibres are non-respirable. May cause temporary skin and mucous membranes itching due to mechanical abrasion effect of fibres. Under normal conditions of use, these products may release dust and non-respirable fibres (Particulates Not Otherwise Regulated). Under severe process conditions (e.g. shredding, crushing), these products may release very small amount of respirable particulate, some of which may be fibre-like in terms of l/d ratio (so-called "shards").

You may find here below some occupational exposure limits for Respirable dust, Total dust and Respirable Fibre.

Chemical name	ACGIH	Austria	Belgium	Bulgaria	Croatia
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Continuous filament glass fibre, non-respirable -	Resp. dust 3 mg/m3 Total dust 10 mg/m3 Resp. fibre 1 fibre/ml	Resp. dust 5 mg/m3 Total dust 5 mg/m3 Resp. fibre 0,5 fibre/ml	Resp. dust 3 mg/m3 Total dust 10 mg/m3 Resp. fibre 1 fibre/ml		
Chemical name	Czech Republic	Denmark	Finland	France	Germany
Continuous filament glass fibre, non-respirable -		Resp. dust 5 mg/m3 Total dust 10 mg/m3 Resp. fibre 0,1 fibre/ml	Total dust 10 mg/m3 Resp. fibre 1 fibre/ml	Resp. dust 5 mg/m3 Total dust 10 mg/m3 Resp. fibre 1 fibre/ml	Resp. dust 1,25 mg/m3 Total dust 10 mg/m3
Chemical name	Hungary	Ireland	Italy	Lithuania	Netherlands
Continuous filament glass fibre, non-respirable -		Resp. dust 4 mg/m3 Total dust 10 mg/m3 Resp. fibre 1 fibre/ml	Resp. dust 3 mg/m3 Total dust 10 mg/m3 Resp. fibre 1 fibre/ml		Resp. dust 3 mg/m3 Total dust 10 mg/m3 Resp. fibre 0,5 fibre/ml
Chemical name	Norway	Poland	Portugal	Russia	Spain
Continuous filament glass fibre, non-respirable -	Resp. dust 5 mg/m3 Total dust 10 mg/m3 Resp. fibre 1 fibre/ml		Resp. dust 3 mg/m3 Total dust 10 mg/m3 Resp. fibre 1 fibre/ml		Resp. dust 3 mg/m3 Total dust 10 mg/m3 Resp. fibre 1 fibre/ml
Chemical name	Sweden	Switzerland	United Kingdom		
Continuous filament glass fibre, non-respirable -	Resp. dust 5 mg/m3 Total dust 10 mg/m3 Resp. fibre 1 fibre/ml	Resp. dust 3 mg/m3 Total dust 10 mg/m3 Resp. fibre 0,5 fibre/ml	Resp. dust 4 mg/m3 Total dust 10 mg/m3 Resp. fibre 2 fibre/ml		

Engineering Controls

Provide local exhaust and/or general ventilation to maintain exposure below regulatory and recommended limits
Local exhaust ventilation should be provided at areas of cutting, milling or other similar processing to remove airborne dust and fibres

Eye/face protection

- Wear safety glasses with side shields (or goggles)

Skin and body protection

- Wear protective gloves
- Wear long-sleeved shirt and long pants

Respiratory protection

- If exposure limits are exceeded, wear appropriate respiratory protections (e.g.: FFP2 or N95 or KN95) to be chosen according to the actual airborne exposure level and in accordance with applicable local regulations

General hygiene considerations

- Wash hands before breaks and immediately after handling products
- Remove and wash contaminated clothing before re-use

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid
Appearance	Mat of glass fibres with filament diameter larger than 6 micron
Odor	Odorless
Color	White; or; Off-white
Water solubility	Insoluble in water
Softening point	> 800°C; > 1500°F (glass)
Density	2.6 (glass)
Explosive properties	Not an explosive

10. STABILITY AND REACTIVITY

Stability

- Stable under normal conditions

Possibility of Hazardous Reactions

- None under normal processing conditions

Hazardous Decomposition Products

- None under normal use conditions
- Small quantities of undetermined hazardous decomposition products may be released in case of heat exposure or during a fire

11. TOXICOLOGICAL INFORMATION

Product Information

Dusts and fibres may cause temporary skin and mucous membranes itching due to mechanical abrasion effect of fibres. Mechanical abrasion is not considered as a health hazard in the meaning of the UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS). Inhalation may cause coughing, nose and throat irritation and sneezing. High exposures may cause difficult breathing, congestion and chest tightness. Continuous filament glass fibres are not respirable according to the World Health Organization (WHO) definition. Respirable fibres have a diameter (d) smaller than 3µm, a length (l) larger than 5µm and a l/d-ratio larger than or equal to 3. Fibres with diameters greater than 3 microns, which is the case for continuous filament glass fibre, do not reach the lower respiratory tract and, therefore have no possibility of causing serious pulmonary disease. Continuous filament glass fibres do not possess cleavage planes which would allow them to split lengthwise into fibres with smaller diameters, rather they break across the fibre, resulting in fibres which are of the same diameter as the original fibre with a shorter length and a small amount of dust. Microscopic examination of dust from highly chopped and pulverized glass demonstrated the presence of small amounts of respirable dust particles. Among these respirable particles, some were fibre-like in terms of l/d ratio (so-called "shards"). It can be clearly observed however that they are not regular shaped fibres but irregular shaped particles with fibre-like dimensions. To the best of our knowledge, the exposure levels of these fibre-like dust particles measured at our manufacturing plants are of the order of magnitude between 50 to 1000 below existing applicable limits.

ACGIH (American Conference of Governmental Industrial Hygienists)

Continuous filament glass fibres are classified as A4 - Not Classifiable as a Human Carcinogen

IARC (International Agency for Research on Cancer)

The International Agency for Research on Cancer (IARC) in June, 1987, and in October, 2001 (see IARC Monographs on the Evaluation of Carcinogenic risks to humans – Man-made Vitreous fibres – Volume 81), categorized continuous filament fibre glass as not classifiable with respect to human carcinogenicity (Group 3). The evidence from human as well as animal studies was evaluated by IARC as insufficient to classify continuous filament glass fibre as a confirmed, probable or even possible cancer-causing material.

NTP (National Toxicology Program)

Continuous filament glass fibres are not listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition)

12. ECOLOGICAL INFORMATION

This product is not expected to be hazardous for the environment.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

- Continuous filament glass fiber waste is a non hazardous waste
- Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

This product is not classified as dangerous goods according to international transport regulations

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.

International Inventories Continuous filament glass fibre products are articles. Articles are exempted from registration or listing under chemicals inventories like TSCA (USA), DSL/NDL (CAN), REACH (EU), ENCS (JP), IECSC (CN), KECL (KR), PICCS (PH), AIC (AUS), TCSI (Taiwan)

16. OTHER INFORMATION

SDS version summary:

Version	Date of Update	Section Updated
1.0	08/05/2026	Template Change

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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