



MATERIAL SAFETY DATA SHEET

DATE PREPARED : 26/06/2017

SECTION 1 – IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

CHEMICAL PRODUCT IDENTIFICATION:

Stronghold Emulsion Bound Chopped Strand Mat, Woven Roving

SUPPLIER INFORMATION :

The Glass Fibre Roofing Company Ltd
Unit 2c Sir Alfred Owen Way
Pontygwindy Ind Est
Caerphilly CF83 3HU
Tel: 02920 888020

sales@glassfibreroofing.co.uk

EMERGENCY TELEPHONE NUMBER

02920 888020

SECTION 2 – HAZARDS IDENTIFICATION

With regard to its composition, these products are articles and not classified as hazardous according to European Directive 67/548/EEC and 99/45/EC and their latest amendments.

Classification of Hazards :

No information available.

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.



MATERIAL SAFETY DATA SHEET

DATE PREPARED : 26/06/2017

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.

Inflammation and Explosion Hazards : No information available.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients of Products:

| Product Name | Glass, % | Size, % | Binder, % | Water, % |
|-----------------------------|-------------|-----------|-----------|----------|
| Woven Roving | 98.8~99.85 | 0.15~1.00 | / | 0~0.20 |
| Emulsion Chopped Strand Mat | 93.05~96.65 | 0.35~1.35 | 3.0~5.4 | 0~0.20 |

CAS No. :

Fiber glass: 65997-17-3

Size: N/A **Size :**

Size is a mixture of chemicals applied to the glass strands. Most of this mixture is made up of basically non reactive high molecular weight polymers, often natural ingredients (starches) with no reactive sites, which are not listed as substances in the EINECS nor in the ELINCS appendices.

Sometimes size maybe also contain substances of organo-silane family or other substances. The manufacturer considers this risk as negligible as, even though listed as dangerous products, the concentration is extremely low (under 0.1% of total weight) and they are polymerised during the production of glass fibers production.



MATERIAL SAFETY DATA SHEET

DATE PREPARED : 26/06/2017

SECTION 4 – FIRST-AID MEASURES

Skin Contact:

If irritation occurs to the skin, rinse with soap and water. Make sure to refrain from rinsing with warm water since warm water will make the skin pores open to allow fiberglass to penetrate more deeply. If fiberglass penetrates the skin, use a wash cloth to help pull out the fiberglass. To avoid further irritation, do not rub or scratch affected skin. If irritation persists, get medical help. Make sure to refrain from using compressed air to remove fiberglass from the skin.

Eye Contact:

Immediately flush eyes with clean water for at least 15 minutes. If irritation persists, get medical help.

Inhalation:

If inhaled, immediately remove the affected person to fresh air. If irritation persists, get medical help.

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.

SECTION 5 – FIRE-FIGHTING MEASURES

Flammability Classification :

Non-flammable. But the size and packing material may burning.

Hazardous Combustion Products :

Primary combustion products are carbon monoxide, hydrogen, carbon dioxide and water. Other undetermined compounds can be released in small quantities.

Fire-Fighting Methods :

Use dry chemical, foam, carbon dioxide and water as extinguishing media.

Fire-Fighting Instructions:

Fire fighters must use self-contained breathing apparatus and wear full protective gear.



MATERIAL SAFETY DATA SHEET

DATE PREPARED : 26/06/2017

SECTION 6 – ACCIDENTAL RELEASE MEASURES

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 can not be easily removed after it is waterborne. However, the material is non-hazardous in water.

SECTION 7 – HANDLING AND STORAGE

Handling :

Try to prevent the packing material from be damaged and keep the product inside the packing material to minimize the generation of dusts. Maintain a clean work environment and avoid generation of fiberglass fragments from improper handling. **Storage :**

Keep product in its packaging until use to minimize potential dust generation.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Highest Permissible Concentration :

National and international hygiene standards are as follows :

| Component | Permissible Exposure Limit of OSHA (8-hr Average Weight) | Permissible Exposure Limit of ACGIH (8 hr Average Weight) |
|-----------|---|--|
|-----------|---|--|



MATERIAL SAFETY DATA SHEET

DATE PREPARED : 26/06/2017

| | | |
|-------------------------|----------------------|----------------------|
| Total Dust | 15 mg/m ³ | 10 mg/m ³ |
| Respirable particulates | 5 mg/m ³ | 3 mg/m ³ |
| Respirable Fibre | / | 1 fibre/ml |

Engineering Control :

Production areas are closed off and a required relative humidity is maintained.

Respiratory Protection :

Wear a suitable mask when working in an environment where dust concentration is high.

Eye Protection :

Wear safety glasses and face shield.

Body Protection :

Normal loose working clothing (long-sleeved shirts and long pants) is recommended. Skin irritation occurs primarily at the contact areas such as around the neck and waist.

Hand Protection :

Wear gloves. Skin irritation occurs primarily at the contact areas such as wrists and between the fingers.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Product Appearance and Properties:

White or off-white solid ; No odor.

Flash Point :

Not applicable

Ignition Temperature : Not applicable.

Not applicable

Melting Point :

Not applicable

Explosion Upper Limit : >800°C.

Boiling Point :

Not applicable.

Explosion Lower Limit :

Not applicable

Relative Density :

Solubility (in Water) :



MATERIAL SAFETY DATA SHEET

DATE PREPARED : 26/06/2017

2.6 Times that of water.

Insoluble

Relative Vapor Density :

Not applicable **Product**

Use :

Fiberglass is an inorganic nonmetal material and is used as Plastics reinforcement and acoustical insulation.

SECTION 10 – STABILITY AND REACTIVITY

Stability:

This is a Stable material.

Materials to Avoid :

None.

Conditions to avoid : None.

Hazardous Polymerization

Will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity :

None.

Irritability :

Fiberglass dusts may cause irritation to skin and eye. Ingestion of fiberglass may cause irritation to the throat, stomach and gastrointestinal tract. Inhalation may cause coughing, sneezing and nose and throat irritation. Experience indicates that inhalation of a large amount of fiberglass may cause difficulty in breathing, congestion and chest tightness.

Carcinogenicity :

The International Agency for Research on Cancer (IARC), agency of the World Health Organization (WHO), has determined that fiberglass is a non-carcinogenic material because the evidence is inadequate to prove that fiberglass can cause humans and experimental animals to develop cancer.



MATERIAL SAFETY DATA SHEET

DATE PREPARED : 26/06/2017

SECTION 12 – ECOLOGICAL INFORMATION

No data available for this product. Fiberglass products are not listed as a material harmful to animals, plants and fish.

SECTION 13 – DISPOSAL CONSIDERATIONS

RCRA Hazard class : Non-hazardous.

Disposal Instructions :

Dispose waste material according to local environmental regulations.

SECTION 14 – TRANSPORT INFORMATION

Classification and Code of Hazards:

None.

UN Code :

None.

Packing Mark:

None.

Packing Category:

None.

Packing Method : None.

Transport Instructions :

Rolling and moisture should be avoided in transit.

SECTION 15 – REGULATORY INFORMATION



MATERIAL SAFETY DATA SHEET

DATE PREPARED : 26/06/2017

SARA title III :

Hazard categories :

| | |
|---------------------|-----|
| Acute health: | Yes |
| Chronic health: | No |
| Fire hazard: | No |
| Pressure hazard: | No |
| Reactivity hazard : | No |

Reportable ingrediedients :

| | |
|---------------|------|
| Sec.302/304 : | None |
| Sec.313 : | None |

Clean Air Act :

No ingredient is listed.

WHMIS(Canada) Status :

No controlled. **WHMIS**

classification(s) :

None.

National chemicals inventories

Based on the rules enforced with regards to the marketing and use of chemicals in countries where our Jushi products are manufactured, each chemical ingredient of these finished products has to be listed on the National Chemicals Inventory of the specific country where produced.

However, glass fiber products are **articles** under the chemicals inventories listed below and consequently are exempt from listing on these inventories:

- The European Inventory of Existing Chemical Substances: EINECS/ELINCS,
- The US EPA Toxic Substance Control Act: TSCA,
- The Canadian Chemical Registration Regulations: NDSL/DSL,
- The Japanese Chemical Substances Control Law under METI: CSCL,
- The Australian Inventory of Chemical Substances: AICS,
- The Philippine Inventory of Chemicals and Chemical Substances: PICCS, - The Korean Existing Chemicals List: (K)ECL and - The Chinese List on New Chemical Substances.



MATERIAL SAFETY DATA SHEET

DATE PREPARED : 26/06/2017

SECTION 16 – OTHER INFORMATION

Preparation Date :

26/06/2017