

SAFFIL MODULES, BLANKETS AND TEXTILES

according to Regulation (EC) No. 1907/2006 (REACH)

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

1.1. Product identifier

Trade name: Saffil modules, blankets and textiles
Product form: Article
Type of product: This product is an article under the REACH definition. As the Classification and labelling regulations (CLP) strictly applies to substances and mixtures it does not make provision for articles. However this product SDS and the defined labelling is provided voluntarily. As a duty of care to the user.

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

1.2.1. Relevant identified uses

Use of the substance/mixture: Article
For industrial use within high temperature applications.

1.2.2. Uses advised against

No additional information available

1.3 Identification of the company

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2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

Extra phrases : Restricted to professional users
This product is an article and has not to be classified and labelled according to the current laws and regulations.

2.3. Other hazards

Other hazards not contributing to the classification:
May cause mechanical irritation to the skin, eyes and respiratory system.

PBT: not relevant – no registration required vPvB: not relevant – no registration required
Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

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3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable

3.2. Mixtures

Comments:

Article

All products contain Polycrystalline wools (PCW), CAS 675106-31-7. substance with national workplace exposure limit(s). Saffil modules, Saffil blanket, Saffil textiles are ready to use products in high temperature applications.

4. FIRST AID MEASURES

4.1. Description of first aid measures

First-aid measures general	In all cases of doubt, or when symptoms persist, seek medical attention.
First-aid measures after inhalation	Fibrous dust may be liberated when handling in use. If irritation to nose and throat, move to fresh air.
First-aid measures after skin contact	Gently wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse.
First-aid measures after eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	Ingestion unlikely

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

Symptoms/effects after inhalation:	mechanical irritation.
Symptoms/effects after skin contact:	mechanical irritation.
Symptoms/effects after eye contact:	mechanical irritation.

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

Treat symptomatically.

5. FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media:

The product is not flammable. Use extinguishing media appropriate for surrounding fire. Foam. Dry powder. Carbon dioxide. Water spray.

Unsuitable extinguishing media :

Do not use a heavy water stream.

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5.2. Special hazards arising from the substance or mixture

Fire hazard: Non flammable.
Explosion hazard: Product is not explosive

5.3. Advice for firefighters

Firefighting instructions:
Prevent fire fighting water from entering the environment.

Protection during firefighting:

Do not enter fire area without proper protective equipment, including respiratory protection.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

General measures

6.1.1. For non-emergency personnel:

Avoid dust formation. Do not breathe dust. Avoid contact with skin and eyes.

Protective equipment Concerning personal protective equipment to use, see section 8.
Emergency procedures

6.1.2. For emergency responders: Prohibit unauthorized persons.

Protective equipment Ensure adequate ventilation. Concerning personal protective equipment to use, see section 8.

Emergency procedures Manipulations are to be done only by qualified and authorised persons.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product. Minimise generation of dust. Dust can be vacuumed with

a vacuum cleaner containing a HEPA (High Efficiency Particulate Air) filter.

Other information : Disposal must be done according to official regulations.

6.4. Reference to other sections

Information for safe handling. See section 7. Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Additional hazards when processed Extraction to remove dust at its source.

Precautions for safe handling Obtain special instructions before use. Avoid contact with eyes. Do not eat, drink or smoke when using this product. Clean contaminated areas thoroughly. Use personal protective equipment as required.
Ensure good ventilation of the work station.

Hygiene measures Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions Product must only be kept in the original packaging. Store tightly closed in a dry and cool place.

7.3. Specific end use(s)

For professional users only. See Heading 8.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Saffil modules, Saffil blanket, Saffil textiles	
United Kingdom - Occupational Exposure Limits	
Local name	MMMMF (Machine-made mineral fibre)
WEL TWA (OEL TWA) [1]	5 mg/m ³ (except for refractory ceramic fibres and special purpose fibres)
WEL TWA (OEL TWA) [2]	2 fibers/ml (except for refractory ceramic fibres and special purpose fibres)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

8.2.1. Appropriate engineering controls

Appropriate engineering controls:
Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection:
In case of dust production: protective goggles

8.2.2.2. Skin protection

Skin and body protection:
Wear suitable protective clothing
Hand protection:
Leather protective gloves

8.2.2.3. Respiratory protection

Respiratory protection:
Dust formation: dust mask. (FFP2)

8.2.2.4. Thermal hazards

No additional information available

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8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke when using this product. Do not take working clothes home. Wash contaminated clothing before reuse. Separate working clothes from town clothes. Launder separately.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Fibres
Colour	: White
Odour	: Odourless.
Odour threshold	: No data available
Melting point	: > 1800 °C Fibres
Freezing point	: Not applicable
Boiling point	: Not applicable
Flammability	: Non combustible
Explosive properties	: Product is not explosive.
Lower explosive limits	: Not applicable
Upper explosive limits	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
pH	: Not applicable
pH solution	: Not applicable
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Solubility	: Water: < 1 mg/l
Partition coefficient n-octanol/water (Log Kow)	: Not applicable
Partition coefficient n-octanol/water (Log Pow)	: Not applicable
Vapour pressure	: Not applicable
Vapour pressure at 50°C	: Not applicable
Relative density	: No data available
Density	: No data available
Vapour pressure	: Not applicable
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: Not available
Relative vapour density at 20°C	: Not applicable
Particle size	: Not available
Particle size distribution	: Not available
Particle shape	: Not available
Particle aspect ratio	: Not available

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Particle aggregation state : Not available
Particle agglomeration state : Not available
Particle specific surface area : Not available
Particle dustiness : Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

Relative evaporation rate (butylacetate=1) : Not applicable

Other properties:

Length weighted geometric mean diameter of fibres contained in the product: 3-4 µm.

10. STABILITY AND REACTIVITY

10.1. Reactivity

Stable under normal conditions of use.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Conditions to avoid

No additional information available.

10.5. Incompatible materials

None.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Do contain organics and on first heating can liberate VOCs.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity (oral):

Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (dermal):

Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (inhalation):

Not classified (Based on available data, the classification criteria are not met)

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Skin corrosion/irritation:

Not classified (Based on available data, the classification criteria are not met) pH: Not applicable

Serious eye damage/irritation:

Not classified (Based on available data, the classification criteria are not met)
pH: Not applicable

Respiratory or skin sensitisation:

Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity:

Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity:

Not classified (Based on available data, the classification criteria are not met)

Additional information: Fibres

(OECD 451 method)

Did not show carcinogenic effects in animal experiments

Reproductive toxicity:

Not classified (Based on available data, the classification criteria are not met)

STOT-single exposure:

Not classified (Based on available data, the classification criteria are not met)

STOT-repeated exposure:

Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard:

Not classified (Not relevant)

Saffil modules, Saffil blanket, Saffil textiles	
Viscosity, kinematic	Not applicable

11.2. Information on other hazards

No additional information available

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute):

Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long-term (chronic)

Not classified (Based on available data, the classification criteria are not met)

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12.2. Persistence and degradability

Saffil modules, Saffil blanket, Saffil textiles	
Persistence and degradability	Not applicable.

12.3. Bioaccumulative potential

Saffil modules, Saffil blanket, Saffil textiles	
Partition coefficient n-octanol/water (Log Pow)	Not applicable
Partition coefficient n-octanol/water (Log Kow)	Not applicable
Bioaccumulative potential	Not applicable.

12.4. Mobility in soil

Saffil modules, Saffil blanket, Saffil textiles	
Ecology - soil	Not applicable.

12.5. Results of PBT and vPvB assessment

Saffil modules, Saffil blanket, Saffil textiles	
PBT: not relevant – no registration required	
vPvB: not relevant – no registration required	

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste treatment methods:

Disposal must be done according to official regulations. European waste catalogue.

Sewage disposal recommendations:

Do not allow into drains or water courses.

Product/Packaging disposal recommendations:

Do not dispose of with domestic waste.

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14. TRANSPORT INFORMATION

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1 UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2 un proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3 Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4 Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5 Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

14.6. Special precautions for user

- Overland transport
Not applicable

- Transport by sea
Not applicable

- Air transport
Not applicable

- Inland waterway transport
Not applicable

- Rail transport
Not applicable

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

15.1.1. EU-Regulations

Other information, restriction and prohibition regulations:

This product is an article and has not to be classified and labelled according to the current laws and regulations. A safety data sheet is not required for this product under Article 31 of REACH. This Product Safety Information Sheet has been created on a voluntary basis.

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REACH Annex XVII (Restriction List) Not applicable.

REACH Annex XIV (Authorisation List) Not applicable.

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

16. OTHER INFORMATION

Abbreviations and acronyms

Abbreviations and acronyms:	
ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

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DNEL	Derived-No Effect Level
IATA	International Air Transport Association
IMDG	International Maritime Code for Dangerous Goods
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
PBT	Persistent Bioaccumulative Toxic
vPvB	Very Persistent and Very Bioaccumulative
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
DMEL	Derived Minimal Effect level
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PNEC	Predicted No-Effect Concentration
SDS	Safety Data Sheet
STP	Sewage treatment plant
TLM	Median Tolerance Limit

Data sources: ECHA (European Chemicals Agency).

Other information:

ECFIA, representing the high temperature insulation wool (HTIW) industry, has undertaken an extensive industrial hygiene programme to provide assistance to the users of all products containing HTIW. The objectives are twofold: • to monitor workplace dust concentrations at both manufacturers' and customers' premises. • to document manufacturing and use of HTIW products from an industrial hygiene perspective in order to establish appropriate recommendations to reduce exposures.