

# SAFFIL MODULES, BLANKETS, TEXTILES

## 1. IDENTIFICATION OF THE PRODUCTS AND OF THE COMPANY

### 1.1. Product identifier

#### Trade name: Saffil Modules, Saffil Blankets, Saffil Textiles

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

#### INSULCON B.V.

The Netherlands

Tel. : +31 (0)167-565750

Zilverhoek 4, 4651 SP STEENBERGEN

Fax : +31 (0)167-566263

[www.insulcon.com](http://www.insulcon.com)

[info@insulcon.com](mailto:info@insulcon.com)

#### INSULCON N.V.

Belgium

Tel. : + 32 (0)3 711.02.78

#### INSULCON GMBH

Germany

Tel.: + 49 (0) 2131 408548-0

## 2. HAZARD 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

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.

### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Precautionary statements (CLP):

P201 - Obtain special instructions before use.

P261 - Avoid breathing dust.

P280 - Wear Respiratory protection.

Insulcon B.V.- The Netherlands - Tel: +31 (0) 167 565750

Insulcon GmbH - Germany - Tel: +49 (0) 2131 408548-0

Insulcon N.V. - Belgium - Tel: +32 (0) 3 711 02 78

Insulcon Projects S.A. - Switzerland - Tel: +41 (0) 91911739-0

**INSULCON**

LEADER IN HIGH TEMPERATURE SOLUTIONS

[www.insulcon.com](http://www.insulcon.com)

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# SAFFIL MODULES, BLANKETS, TEXTILES

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. 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.

Voluntary labelling will be added to product to advise as to safe handling and use.

## 2.3. Other hazards

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

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Not applicable

#### Comments: Article

All products contain Polycrystalline wools (PCW), CAS 675106-31-7. substance with national workplace exposure limit(s)

Saffil Shapes and Saffil Boards are ready to use products in high temperature applications

#### Comments:

Saffil Modules, Saffil Blankets, Saffil Textiles are ready to use products in high temperature applications.

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH annex II.

## 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

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. Get medical advice if skin irritation persists.

First-aid measures after eye contact:

Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion:

Ingestion unlikely. Drink plenty of water.

# SAFFIL MODULES, BLANKETS, TEXTILES

## 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.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard: Non flammable.

### 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

#### 6.1.1. For non-emergency personnel

Protective equipment: Concerning personal protective equipment to use, see section 8.  
Emergency procedures: Prohibit unauthorized persons.

#### 6.1.2. For emergency responders

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. Prevent entry to sewers and public waters. Avoid sub-soil penetration.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Mechanically recover the product. Minimize generation of dust. High efficiency particulate air filter (HEPA filter).

### 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.

# SAFFIL MODULES, BLANKETS, TEXTILES

## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

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.

### 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. Exposure scenarios.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

### 8.1 Control parameters

EU Observe general threshold limit for dust

Exposure limit values for the other components

Polycrystalline wools (PCW) (675106-31-7)

UK - Remark (WEL) TWA 8 hr 2 f/ml; 5 mg/m<sup>3</sup>  
(total dust); Machine-made  
mineral fibres: Work place  
Exposure Limit EH40

### 8.2 Exposure controls

#### Hand protection:

Leather protective gloves

#### Eye protection:

Safety glasses with side shields as appropriate.

#### Skin and body protection:

Wear suitable protective clothing. Do not take working clothes home

#### Respiratory protection:

If dust are formed : Wear appropriate mask, (FFP3)

# SAFFIL MODULES, BLANKETS, TEXTILES

Personal protective equipment symbol(s)



## Other information:

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid
Appearance	Fibres
Colour	White.
Odour	Odourless.
Odour threshold	No data available
pH	Not applicable
Relative evaporation rate (butylacetate=1)	Not applicable
Melting point	> 1800 °C Fibres
Freezing point	Not applicable
Boiling point	Not applicable
Flash point	Not applicable
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapour pressure	Not applicable
Relative vapour density at 20 °C	No data available
Relative density	No data available
Solubility	Water: < 1 mg/l
Log Pow	No data available
Log Kow	Not applicable
Viscosity, kinematic	Not applicable
Viscosity, dynamic	Not applicable
Explosive properties	Product is not explosive.
Oxidising properties	Non oxidizing.
Explosive limits	Not applicable

### 9.2. Other information

#### Other properties:

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

# SAFFIL MODULES, BLANKETS, TEXTILES

## 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.

## 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)

**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)

## SAFFIL MODULES, BLANKETS, TEXTILES

### 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)

### Other information:

Chronic effects:

Lifetime rat inhalation studies of polycrystalline fiber show that at the maximum dose level tested, there was no evidence of lung cancer, lung fibrosis or any other significant adverse effect. Intraperitoneal, intratracheal and intrapleural studies in rats, together with two in vitro tests, have all shown negative results. Despite some study limitations, it is important to note the consistent lack of carcinogenic response in animal studies.

In 1988, the International Agency for Research on Cancer (IARC) considered the carcinogenicity of several groups of fibers. One grouping they considered was a poorly defined collection of disparate fiber types [polycrystalline fiber, refractory ceramic fiber (referred to as RCF) and single crystal whiskers] into a broad, single category they termed "ceramic fibers". The IARC monograph clearly indicated that test data specific to polycrystalline fibers were negative, but according to the IARC classification principles, positive results with other fiber types led to the conclusion that all fibers in the group should be considered as possible human carcinogens (IARC Category 2B). In a subsequent monograph on MMVF (2002), IARC did not specifically re-evaluate polycrystalline fiber. The Annual Report on Carcinogens prepared by the National Toxicology Program (NTP), (latest edition) classified "ceramic fibers (respirable size)" as reasonably anticipated to be carcinogens.

As produced most polycrystalline fibers, including Saffil, have fiber diameters too large to be respirable. Numerous scientific studies suggest that the potential toxicity of a respirable fiber is directly related to bio-persistence (the length of time it takes for the fiber to clear the lung). Based on limited in-vitro laboratory analysis, which measure the dissolution rate of fibers in simulated lung fluid, polycrystalline fibers are known to be relatively durable. Data from respiratory surveillance studies are not available for PCW workers. In a small cohort of workers exposed to PCW with historical co-exposures to RCF and other fibers, there was no evidence of interstitial lung disease on chest x-rays nor an accelerated rate of loss of lung function on pulmonary function testing. Symptom responses could not be attributed to or excluded from exposure to PCW as a consequence of the prior fiber exposures.

## SAFFIL MODULES, BLANKETS, TEXTILES

### 12. ECOLOGICAL INFORMATION

#### 12.1. Toxicity

Ecology - general:

The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Acute aquatic toxicity: Not classified (Based on available data, the classification criteria are not met)

Chronic aquatic toxicity: Not classified (Based on available data, the classification criteria are not met)

#### 12.2 Persistence and degradability

<b>Saffil Modules, Saffil Blankets, Saffil Textiles</b>	
Persistence and degradability	Not applicable.

#### 12.3 Bioaccumulative potential

<b>Saffil Modules, Saffil Blankets, Saffil Textiles</b>	
Log Know	Not applicable.

#### 12.4 Mobility in soil

<b>Saffil Modules, Saffil Blankets, Saffil Textiles</b>	
Ecology - soil	Not applicable.

#### 12.5 Results of PBT and vPvB assessment

<b>Saffil Modules, Saffil Blankets, Saffil Textiles</b>	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

#### 12.6 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

### 14. TRANSPORT INFORMATION

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

ADR	IMDG	IATA	AND	RID
<b>14.1 UN Number</b>				
Not regulated for transport				

## SAFFIL MODULES, BLANKETS, TEXTILES

<b>14.2 UN proper shipping name</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3 Transport hazard class(es)</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4 Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5 Environmental hazards</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available.				

### **14.6 Special precautions for user**

- Overland transport

Transport regulation (ADR): Not applicable

- Transport by sea

Transport regulations (IMDG): Not applicable

- Air transport

Transport regulations (IATA): Not applicable

- Inland waterway transport

Transport regulations (ADN): Not applicable

- Rail transport

Transport regulations (RID): Not applicable

### **14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable.

## 15. REGULATORY INFORMATION

### **15.1 Safety, health and environment regulations/legislation specific for the substance or mixture**

#### **15.1.1 EU Regulations:**

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

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. Take note of Directive 94/33/EC on the protection of young people at work. Take note of Directive 92/85/EC on the safety and health of pregnant workers at work.

# SAFFIL MODULES, BLANKETS, TEXTILES

## 15.1.2. National regulations

No additional information available

## 15.2. Chemical safety assessment

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.

## 16. OTHER INFORMATION

### Indication of changes:

General revision

### Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DNEL	Derived-No Effect Level
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rai
PBT	Persistent Bio accumulative Toxic
vPvB	Very persistent and Very Bio accumulative

### Data source:

### Data sources:

ECHA (European Chemicals Agency).

### Other information:

Please refer to specific technical data sheet for more information. Please refer to the list of products considered to be articles.

### Care programme

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.

The information presented herein is presented in good faith and believed to be accurate as of the effective date of this Safety Data Sheet. Employers may use this SDS to supplement other information gathered by them in their efforts to assure the health and safety of their employees and the proper use of the product. This summary of the relevant data reflects professional judgment; employers should note that information perceived to be less relevant has not been included in this SDS. Therefore, given the summary nature of this document, Insulcon does not extend any warranty (expressed or implied), assume any responsibility, or make any representation regarding the completeness of this information or its suitability for the purposes envisioned by the user.

**Insulcon B.V.**- The Netherlands - Tel: +31 (0) 167 565750  
**Insulcon GmbH** - Germany - Tel: +49 (0) 2131 408548-0  
**Insulcon N.V.** - Belgium - Tel: +32 (0) 3 711 02 78  
**Insulcon Projects S.A.** - Switzerland - Tel: +41 (0) 91911739-0

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