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. KERAMAB N.V. INSULCON GMBH

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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.

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Extra phrases: Restricted to professional users

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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

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

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.

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.

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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.

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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/m3

(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)







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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 Not applicable Log Kow Viscosity, kinematic Not applicable

Explosive properties Product is not explosive.

Oxidising properties Non oxidizing. Explosive limits Not applicable

9.2. Other information

Other properties:

Viscosity, dynamic

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

Not applicable

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.

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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)

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:

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Basic toxicokinetic

Exposure is predominantly by inhalation or ingestion. Man made vitreous fibres of a similar size to RCF/ASW have not been shown to migrate from the lung and/or gut and do not become located in other parts of the body When compared to many naturally occurring minerals, RCF/ASW has a low ability to persist and accumulate in the body (half-life of long fibres (> $20~\mu m$) in 3 week rat inhalation test is approx. 60 days).

Human toxicological data

In order to determine possible human health effects following RCF exposure, the University of Cincinnati has been conducting medical surveillance studies on RCF workers in the U.S. The Institute of Occupational Medicine (IOM) has conducted medical surveillance studies on RCF workers in European manufacturing facilities.

Pulmonary morbidity studies among production workers in Europe and USA have demonstrated an absence of interstitial fibrosis and no loss in lung function was observed in the longitudinal study with RCF exposure.

A statistically significant correlation between pleural plaques and cumulative RCF exposure was evidenced in the USA longitudinal study.

The USA mortality study did not show evidence of increased lung tumour development either in the lung parenchyma or in the pleura.

Irritant Properties

Negative results have been obtained in animal studies (EU method B 4) for skin irritation. Inhalation exposures using the nose only route produce simultaneous heavy exposures to the eyes, but no reports of excess eye irritation exist. Animals exposed by inhalation similarly show no evidence of respiratory tract irritation.

Human data confirm that only mechanical irritation, resulting in itching, occurs in humans, Screening at manufacturers' plants in the UK has failed to show any human cases of skin conditions related to fibre exposure.

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 Chronic aquatic toxicity: Not classified

12.2 Persistence and degradability

Saffil Modules, Saffil Blankets, Saffil Textiles	
Persistence and degradability	Not applicable.

12.3 Bioaccumulative potential

Saffil Modules, Saffil Blankets, Saffil Textiles	
Bioaccumulative potential	Not applicable.

12.4 Mobility in soil

Saffil Modules, Saffil Blankets, Saffil Textiles	
Ecology - soil	Not applicable.

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12.5 Results of PBT and vPvB assessment

Saffil Modules, Saffil Blankets, Saffil Textiles

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	
14.1 UN Number					
Not regulated for transport					
14.2 UN proper shi	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	
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					
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant:	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No	
No supplementary information available.					

14.6 Special precautions for user

- Overland transport

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Transport regulation (ADR): Not applicable

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SAFFIL MODULES, BLANKETS, TEXTILES

- 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

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.

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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

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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.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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