

## 1. IDENTIFICATION OF THE COMPANY

### 1.1. Product identifier

**Trade name: Insulfrax Products**

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.

Zilverhoek 4, 4651 SP STEENBERGEN

Tel. : +31 (0)167-565750

[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. 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

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

Extra phrases: 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 respiratorysystem.

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

**Insulcon B.V. - Insulcon GmbH - Insulcon N.V. - Insulcon Projects SA**

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

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Comments: Article

All products contain AES wool (synthetic fibres, alkaline earth silicate, CAS 436083-99-7). substance with national workplace exposure limit(s).

Insulfrax products are ready for use 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 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.

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

Fire hazard : Non flammable.  
Explosion hazard : Product is not explosive.  
Hazardous decomposition products in case of fire: None.

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

#### 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.

### 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).  
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. Use personal protective equipment as required. Ensure good ventilation of the work station. Do not eat, drink or smoke when using this product. Avoid dust formation. Do not breathe dust. Avoid contact with eyes. Clean contaminated areas thoroughly.

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.

Information about storage in one common storage facility: Keep away from food, drink and animal feeding stuffs.

### 7.3. Specific end use(s)

For professional users only. See Heading 8.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

Insulfrax products	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Man made vitreous fibers (MMVF)
Remark	The NOEL of $30 \times 10^6$ WHO-f/m <sup>3</sup> or $10 \times 10^6$ f with $l > 20 \mu\text{m}$ is used as the starting point to derive an OEL. Taking into account this well defined NOEL, a LOEL at fivefold higher concentrations, and the absence of a carcinogenic potential in long term inhalation studies allows to apply the small uncertainty factor of 3 resulting in the OEL of 10 f/ml ( $10 \times 10^6$ fibres /m <sup>3</sup> or 1 mg/m <sup>3</sup> ). (Year of adoption 2002)
Regulatory reference	SCOEL Recommendations
United Kingdom - Occupational Exposure Limits	
Local name	MMM (Machine-made mineral fibre)
WEL TWA (OEL TWA) [1]	5 mg/m <sup>3</sup> (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

#### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

No additional information available

### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 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

### 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
Colour	: white. Beige.
Odour	: odourless.
Odour threshold	: Not available
Melting point	: > 1300 °C Fibres
Freezing point	: Not available

Boiling point	: Not available
Flammability	: Not available
Explosive properties	: Product is not explosive.
Oxidising properties	: Non oxidizing.
Explosive limits	: Not applicable
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not available
pH	: Not specifically applicable
pH solution	: Not available
Viscosity, kinematic	: Not applicable
Solubility	: Water: < 1 mg/l Fibres
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 2.6 g/cm <sup>3</sup> Fibres
Relative density	: 2.6 Fibres
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
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**

Other properties : Length weighted geometric mean diameter of fibres contained in the product: 1,9 - 6 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)

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 sensitization:

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)

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)

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

### 11.2.2. Other information

#### Other information: Irritant Properties

When tested using approved methods (Directive 67/548/EC, Annex V, Method B4), fibres contained in this material give negative results. Man made mineral fibres, can produce a mild irritation resulting in itching or rarely, in some sensitive individuals, in slight reddening. Unlike other irritant reactions this is not the result of allergy or chemical skin damage but is caused by a temporary mechanical effect.

#### Other Animal Studies

These materials have been designed to allow rapid clearance from lung tissue. And this low biopersistence has been confirmed in many studies on AES using EU protocol ECB/TM/27(rev 7). When inhaled, even at very high doses, they do not accumulate to any level capable of producing a serious adverse biological effect. In lifetime chronic studies there was no exposure- related effect more than would be seen with any “inert” dust.

## 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)

### 12.2 Persistence and degradability

Persistence and degradability	Not applicable.
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### 12.3 Bioaccumulative potential

Bioaccumulative potential	Not applicable.
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### 12.4 Mobility in soil

Ecology - soil	Not applicable.
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### 12.5 Results of PBT and vPvB assessment

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.

## 14. TRANSPORT INFORMATION

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

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID number</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<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

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

### 14.7. Maritime transport in bulk according to IMO instruments

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.

**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 chemical safety assessment has been carried out

**16. OTHER INFORMATION**
**Indication of changes:**

General revision.

**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
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).