



# Insulfrax Modules, Insulfrax Blankets, Insulfrax Textiles

## Safety Data Sheet

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

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Version: 2.01

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Trade name : Insulfrax Modules, Insulfrax Blankets, Insulfrax Textiles  
Product code : 221  
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. Details of the supplier of the safety data sheet

##### Supplier

Unifrax Limited  
Mill Lane, Rainford  
WA11 8LP St Helens, Merseyside - United Kingdom  
T + 44 (0) 1744 88 7600 - F + 44 (0) 1744 88 9916  
[reachsds@unifrax.com](mailto:reachsds@unifrax.com)

##### Email competent person

[reachsds@unifrax.com](mailto:reachsds@unifrax.com)

##### Distributor

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07989 Teichwolframsdorf - Germany  
T + 49 (0) 366 24 40020 - F + 49 (0) 366 24 40099

##### Distributor

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17 Rue Antoine Durafour  
42420 Lorette - France  
T +33 (0) 477 737 032 - F +33 (0) 477 733 991

##### Distributor

Unifrax Derby  
Shaftsbury Street  
DE23 8XA Derby - United Kingdom  
T +44 (0) 1332 331808

##### Distributor

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Ruská 311, Pozorka  
417 03 Dubí 3 - Czech Republic  
T + 42 (0) 417 800 356 - F + 42 (0) 417 539 838  
[pskvara@unifrax.com](mailto:pskvara@unifrax.com)

##### Distributor

Unifrax Italia Srl  
Via Volonterio 19  
21047 Saronno (VA) - Italy  
T +39 02 967 01 808 - F +39 02 962 5721

##### Distributor

Unifrax Spain  
Cristobal Bordiu 20  
28003 Madrid - Spain  
T + 34 91 395 2279 - F + 34 91 395 2124

#### 1.4. Emergency telephone number

Emergency number : Occupational Hygiene and CARE: Tel: + 44 (0) 1744 887603; Email: [reachsds@unifrax.com](mailto:reachsds@unifrax.com); (8.15-17.10 h); Language : English

### SECTION 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

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]

Extra phrases : 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.

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### 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

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Not applicable

Comments

: Article

All products contain AES wool (synthetic fibres, alkaline earth silicate, CAS 436083-99-7).

substance with national workplace exposure limit(s)

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

## SECTION 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.

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.

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

Treat symptomatically.

## SECTION 5: Firefighting 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.

## SECTION 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.

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### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or 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

See section 7. See Heading 8. See Heading 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Obtain special instructions before use. Avoid contact with skin and 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.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limit values for the other components

| AES wool (synthetic fibres, alkaline earth silicate, CAS 436083-99-7) (436083-99-7) |   |  |  |
|---|---|--|--|
| EU  | Observe general threshold limit for dust. |  |  |
| United Kingdom  | Remark (WEL)                              | 2.0 f/ml and 5 mg/m <sup>3</sup> (HSE - EH40 – Workplace Exposure Limit) |  |

### 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, (FFP2)



#### 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.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Solid  
Colour : white. Beige.  
Odour : odourless.  
Odour threshold : No data available

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|  |                                  |
|--|----------------------------------|
| pH   | : Not applicable                 |
| Relative evaporation rate (butylacetate=1) | : Not applicable                 |
| Melting point                              | : > 1300 °C Fibres               |
| Freezing point                             | : Not applicable                 |
| Boiling point                              | : Not applicable                 |
| Flash point                                | : Not applicable                 |
| Auto-ignition temperature                  | : Not self-igniting              |
| Decomposition temperature                  | : No data available              |
| Flammability (solid, gas)                  | : Not applicable                 |
| Vapour pressure                            | : Not applicable                 |
| Relative vapour density at 20 °C           | : No data available              |
| Relative density                           | : 2.6 (Fibres)                   |
| Density                                    | : 2.6 g/cm <sup>3</sup> (Fibres) |
| Solubility                                 | : Water: < 1 mg/l (Fibres)       |
| Log Pow                                    | : No data available              |
| 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: 1.9 - 6 µm.

## SECTION 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.

## SECTION 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)<br>pH: Not applicable |
| Serious eye damage/irritation     | : Not classified (Based on available data, the classification criteria are not met)<br>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)                       |
| 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)   |

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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.

### SECTION 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

| Insulfrax Modules, Insulfrax Blankets, Insulfrax Textiles |                 |
|---|-----------------|
| Persistence and degradability                             | Not applicable. |

#### 12.3. Bioaccumulative potential

| Insulfrax Modules, Insulfrax Blankets, Insulfrax Textiles |                 |
|---|-----------------|
| Bioaccumulative potential                                 | Not applicable. |

#### 12.4. Mobility in soil

| Insulfrax Modules, Insulfrax Blankets, Insulfrax Textiles |                 |
|---|-----------------|
| Ecology - soil  | Not applicable. |

#### 12.5. Results of PBT and vPvB assessment

| Insulfrax Modules, Insulfrax Blankets, Insulfrax 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

### SECTION 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 : Dispose in a safe manner in accordance with local/national regulations.

### SECTION 14: Transport information

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

| ADR                                     | IMDG           | IATA           | ADN            | RID            |
|---|----------------|----------------|----------------|----------------|
| <b>14.1. UN 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 |
| <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  |                |                |                |                |

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### 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

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental 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

## SECTION 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, 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  |

Data sources : ECHA (European Chemicals Agency).

Other information : Occupational Hygiene: dawn.webster@unifrax.com. Please refer to specific technical data sheet for more information. Please refer to the list of products considered to be articles.

KFT SDS EU 10

*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, Unifrax I LLC 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.*

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