



# INSULFRAX

## Safety Data Sheet

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

Date of issue: 3/31/2016

Revision date: 3/31/2016

Supersedes: 11/27/2015

Version: 33.00

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

#### 1.1. Product identifier

Trade name : INSULFRAX  
Chemical name : AES wool (synthetic fibres, alkaline earth silicate)  
EC no : 650-016-00-2  
CAS No : 436083-99-7  
REACH registration No : 01-2119457644-32-0002  
Product code : 200

#### 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 : 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  
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##### Distributor

Unifrax France  
17 Rue Antoine Durafour  
42420 Lorette - France  
T +33 (0) 4 7773 7000 - F +33 (0) 4 7773 3991

##### Distributor

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

##### Distributor

Unifrax s.r.o.  
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  
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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

No additional information available

#### 2.2. Label elements

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

No labelling applicable

#### 2.3. Other hazards

No additional information available

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### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
AES wool (synthetic fibres, alkaline earth silicate)	(CAS No) 436083-99-7 (EC no) 650-016-00-2 (REACH-no) 01-2119457644-32-0002	100	Not classified

Full text of H-statements: see section 16

#### 3.2. Mixture

Not applicable

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures after inhalation	: 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. If skin irritation persists, take medical advice.
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	: Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/injuries after skin contact	: mechanical irritation.
Symptoms/injuries 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

No additional information available

#### 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	: Ensure operatives are trained to minimise exposures.

#### 6.2. Environmental precautions

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).
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#### 6.4. Reference to other sections

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

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Avoid contact with skin and eyes. Use personal protective equipment as required. Obtain special instructions before use. Do not eat, drink or smoke when using this product. Clear contaminated areas thoroughly. 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.
- Prohibitions on mixed storage : Keep away from food, drink and animal feeding stuffs.

#### 7.3. Specific end use(s)

For professional users only. See Heading 8.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

INSULFRAX (436083-99-7)		
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 : protective gloves
- Eye protection : Safety glasses with side shields
- Skin and body protection : Wear suitable protective clothing
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. If dust are formed : Short term exposure. (FFP2)
- Other information : Wash contaminated clothes.

### SECTION 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
- pH : Not applicable
- Relative evaporation rate (butylacetate=1) : No data available
- Melting point : > 1300 °C
- Freezing point : No data available
- 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 : 2.6
- Density : 2.6 g/cm<sup>3</sup>
- Solubility : Water: < 1 mg/l
- Log Pow : No data available
- Log Kow : Not applicable
- Viscosity, kinematic : Not applicable
- Viscosity, dynamic : Not applicable
- Explosive properties : No data available
- Oxidising properties : No data available
- Explosive limits : No data available

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### 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 : 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

Additional information : 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.

Subchronic studies at the highest doses achievable produced, at worst, a transient mild inflammatory response. Fibres with the same ability to persist in tissue do not produce tumours when injected into the peritoneal cavity of rats

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)

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

Specific target organ toxicity (single exposure) : Not classified (Based on available data, the classification criteria are not met)

Specific target organ toxicity (repeated exposure) : Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified (Not relevant)

## SECTION 12: Ecological information

### 12.1. Toxicity

No additional information available

### 12.2. Persistence and degradability

No additional information available

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### 12.3. Bioaccumulative potential

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Log Kow	Not applicable
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### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
European List of Waste (LoW) code : 10 11 03 - waste glass-based fibrous materials

## 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
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>				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	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

Transport regulations (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

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions  
INSULFRAX is not on the REACH Candidate List

#### 15.1.2. National regulations

No additional information available

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### 15.2. Chemical safety assessment

A chemical safety assessment has been carried out

### SECTION 16: Other information

Indication of changes:

General revision.

11.1	Toxicological information	Added	
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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 Rai
PBT	Persistent Bioaccumulative Toxic
vPvB	Very Persistent and Very Bioaccumulative

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : Occupational Hygiene: dawn.webster@unifrax.com.

KFT SDS EU

*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*