

# ISOFRAX FIBRES

According to regulation (EC) No. 1907/2006 (REACH)

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

### 1.1 Product identifier

**Trade names** : Isofrax fibres  
**Chemical name** : AES wools (synthetic fibres, alkaline earth silicate)  
**EC-No** : 650-016-00-2  
**CAS number** : 436083-99-7  
**REACH registration number** : 01-2119457644-32-0001 and 01-2119457644-32-0002

### 1.2 Relevant identified use of the substance of 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 Identification of the company

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Germany

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## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance/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

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

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

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## 3. COMPOSITION / INFORMATION OF INGREDIENTS

### 3.1 Substance

NAME	PRODUCT IDENTIFIER	%	Classification according to Regulation (EC) No. 1272/2008 (CLP)
Alkaline earth silicate wool (synthetic fibres, alkaline earth silicate)	(CAS No.) 436 083 99-7 (EC no.) 650-016-00-2	100	Not classified

Full text of H-statements; see section 16

### 3.2 Mixture

Not applicable

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

- After inhalation: Move to fresh air. If you feel unwell, seek medical advice.
- 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.
- After eye contact: Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/ attention.
- 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.

## 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

No additional information available.

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## 5.3 Advice for firefighters

Firefighting instructions: Prevent fire-fighting water from entering 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 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 operative 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)

### 6.4 Reference to other sections

See heading 7, 8 and 13.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Precautions for handling: Avoid contact with skin and eyes. Use personal protective equipment as required. Obtain special instruction 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 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 stuff.

### 7.3 Specific use(s)

For professional users only. See Heading 8. Exposure scenarios.

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## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

### 8.1 Control parameters

#### AES wool (synthetic fibres, alkaline earth silicate) (436083-99-7)

United Kingdom	Remark (WEL)	2,0 f/ml (HSE EH40 Workplace Exposure Limit)
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### 8.2 Exposure controls

Hand protection	:	Protective gloves
Eye	:	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.

## 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)	:	No data available
Melting point	:	1500° - 1550°C
Freezing point	:	No data available
Boiling point	:	Not applicable
Flash point	:	Not applicable
Auto-ignition temperature	:	None
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	No data available
Oxidising properties	:	None
Vapour pressure	:	Not applicable
Relative vapour density at 20 °C	:	No data available
Relative density	:	2.6
Solubility	:	Water < 1 mg/l
Log pow	:	No data available
Viscosity, kinematic	:	Not applicable
Viscosity, dynamic	:	Not applicable
Explosive properties	:	No data available
Oxidising properties	:	No data available
Explosive properties	:	No data available

### 9.2 Other information

Other properties	:	Length weighted geometric mean diameter of fibres contained in the product 1,9 – 6 µm
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**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:**

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)

**Serious eye damage/ irritation:**

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

**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 (Based on available data, the classification criteria are not met)

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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 bio-persistence 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.

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

No additional information available.

### 12.2 Persistence and degradability

No additional information available.

### 12.3 Bioaccumulative potential

No additional information available.

### 12.4 Mobility in soil

No additional information available.

### 12.5 Results of PBT and vPvB assessment

#### AES wool (synthetic fibres, alkaline earth silicate) (436083-99-7)

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 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.

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<b>14. TRANSPORT INFORMATION</b>
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In accordance with ADR, RID, IATA, IMDG, ADN.

ADR	IMDG	IATA	AND	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>				
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.

<b>15. REGULATORY INFORMATION</b>
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**15.1 Safety, health and environment regulations/legislation specific for the substance or mixture**

**15.1.1 EU Regulations:**

No REACH Annex XVII restrictions  
AES wool (synthetic fibres, alkaline earth silicate) is not on the REACH Candidate List.

**15.1.2 National regulations:**

No additional information available

**15.2 Chemical safety assessment**

A chemical safety assessment has been carried out.

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## 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:

ECHA (European Chemicals Agency)

*The information presented herein is based on data considered to be accurate as of the data of preparation of this Material Safety Datasheet. However, no warranty or representation, express or implied, is made as to the accuracy or completeness of the foregoing data and safety information, nor is any authorisation given or implied to practice any patented invention without a licence. In addition, no responsibility can be assumed by the vendor for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.*