## **ISOFRAX FIBRES**

According to: (EC) No 1907/2006 amended by Regulation (EU) 2020/878

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

1.1 Product identifier		
Tradename	:	Isofrax Fibres
Chemical name	:	AES wool (synthetic fibres, alkaline earth silicate)
EC index No	:	650-016-00-2
EC-No	:	610-130-5
CAS No	:	436083-99-7
<b>REACH registration No</b>	:	01-2119457644-32-0002

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

: Industrial use Main use category 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 **INSULCON B.V.**

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**INSULCON N.V.** Belgium Tel. : + 32 (0)3 711.02.78

**INSULCON GMBH** Germany Tel.: +49 (0)2131 408548-0

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#### 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] Listed in Annex VI : EC Index-No 650-016-00-2 e

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#### 2.3. Other hazards

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.1. Substance

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
AES wool (synthetic	(CAS No) 436083-99-7	100	Not classified
fibres, alkaline earth	(EC no) 650-016-00-2		
silicate)	EC Index-No.: 650-016-00-2		
	REACH-no: 01-211945764432-		
	0001;01-2119457644-32-		
	0002		

#### 3.2. Mixture

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Not applicable

#### 4. FIRST AID MEASURES

#### 4.1. Description of first aid measures

First-aid measures general	When in doubt or if symptoms are observed, get medical advice.
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.
First-aid measures after eye contact	Rinse cautiously with water for several minutes.
First-aid measures after ingestion	Rinse mouth.

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

Symptoms/effects after inhalation mechanical irritation.	Irritating to the respiratory system and mucous membranes.
	May cause slight temporary irritation. mechanical irritation. May cause slight temporary irritation to ocular mucous membranes. mechanical irritation.

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

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#### **5. FIRE-FIGHTING MEASURES**

#### 5.1. Extinguishing media

Suitable extinguishing media Not combustible. Use fire fighting measures suiting the environment. 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 hazardNon flammable.Explosion hazardProduct is not explosive.Hazardous decomposition products in case of fire: None.

#### 5.3. Advice for firefighters

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А Ш Firefighting instructionsPrevent firefighting water from entering the environment.Protection during firefightingDo not enter fire area without proper protective equipment,<br/>including respiratory protection.

#### 6. ACCIDENTAL RELEASE MEASURES

#### **6.1. Personal precautions, protective equipment and emergency procedures** General measures

<b>6.1.1. For non-emergency personnel</b> Protective equipment	Avoid dust formation. Do not breathe dust. Avoid contact with skin and eyes. Concerning personal protective equipment to use, see section 8. Emergency procedures
6.1.2. For emergency responders Protective equipment Emergency procedures	Prohibit unauthorized persons. Ensure adequate ventilation. Concerning personal protective equipment to use, see section 8. Manipulations are to be done only by qualified and authorised persons.

#### 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

Mechanically recover the product. Minimise generation of dust.
Dust can be vacuumed with a vacuum cleaner containing a
HEPA (High Efficiency Particulate Air) filter.
Disposal must be done according to official regulations.

#### 6.4. Reference to other sections

See section 7. See Section 8. See Section 13. Disposal must be done according to official regulations.

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#### 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. Ensure good ventilation
	of the work station. Use personal protective equipment as
	required. Do not breathe dust. Avoid contact with skin and
	eyes. Do not eat, drink or smoke when using this product. 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 conditionsProduct must only be kept in the original packaging. Store<br/>tightly closed in a dry and cool place.

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

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

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For professional users only. See Section 8.

#### 8. EXPOSURE CONTROL / PERSONAL PROTECTION

#### 8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

AES wool (synthetic fibres, alkaline earth silicate) (436083-99-7)		
United Kingdom - Occupational Exposure Limits		
Local name	MMMF (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

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#### 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

Personal protective equipment symbol(s):



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А Ш **8.2.2.1. Eye and face protection** Eye protection: Safety glasses with side shields

#### 8.2.2.2. Skin protection

Skin and body protection: Wear suitable protective clothing

Hand protection: 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.

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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

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

9.1. Information on basic physical and chemical properties		
Physical state	: Solid	
Colour	: white.	
Appearance	: Fibres.	
Odour	: odourless.	
Odour threshold	: Not available	
Melting point	: 1500 – 1550 °C	
Freezing point	: Not applicable	
Boiling point	: Not applicable	
Flammability	: Not applicable	
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 self-igniting Decomposition temperature : Not available	
рН	: Not applicable	
pH solution	: Not available	
Viscosity, kinematic	: Not applicable	
Viscosity, dynamic	: Not applicable	
Solubility	: Water: < 1 mg/l	
Partition coefficient n-octanol	/water (Log Kow): Not applicable	
Vapour pressure	: Not applicable	
Vapour pressure at 50 °C	: Not available	
Density	: Not available	
Relative density	: 2.6	
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

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#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

Relative evaporation rate (butylacetate=1): Not applicable

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## **ISOFRAX FIBRES**

Relative evaporation rate (ether=1) Other properties Not applicable
Length weighted geometric mean diameter of fibres contained in the product: 1.9 - 6 μm

#### **10. STABILITY AND REACTIVITY**

#### 10.1. Reactivity

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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 (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)
Additional information	(OECD 404 method)
Serious eye damage/irritation	Not classified (Based on available data, the classification criteria are not met) pH: Not applicable
Additional information	(OECD 492 method)
Respiratory or skin sensitisatio	n 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)

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Additional information Carcinogenicity	(OECD 471 method) (OECD 476 method Not classified (Based on available data, the classification criteria are not met)
Additional information	(OECD 451 method)
Reproductive toxicity not met)	Not classified (Based on available data, the classification criteria are
Additional information	(OECD 421 method)
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)

AES wool (synthetic fibres, alkaline eart	h silicate) (436083-99-7)

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### Not applicable

#### 11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No additional information available

#### 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)

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#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

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

Not applicable

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#### 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. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties: The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

#### 12.7. Other adverse effects

No additional information available

#### **13. DISPOSAL CONSIDERATIONS**

#### 13.1. Waste treatment methods

Product/Packaging 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

#### **14. TRANSPORT INFORMATION**

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

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

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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	Dangerous for	Dangerous for the	Dangerous for the	Dangerous for the	
environment : No	the environment	environment : No	environment : No	environment : No	
	: No Marine				
	pollutant : No				
No supplementary information available					

# 14.6. Special precautions for user

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<ul> <li>Overland transport</li> </ul>		
Transport regulations (ADR)	:	Not applicable
- Transport by sea		
Transport regulations (IMDG)	:	Not applicable
- Air transport		
Transport regulations (IATA)	:	Not applicable
<ul> <li>Inland waterway transport</li> </ul>		
Transport regulations (ADN)	:	Not applicable
- Rail transport		
Transport regulations (RID)	:	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

#### **EU-Regulations**

No REACH Annex XVII restrictions

AES wool (synthetic fibres, alkaline earth silicate) is not on the REACH Candidate List

AES wool (synthetic fibres, alkaline earth silicate) is not on the REACH Annex XIV List

ISOFRAX is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals.

ISOFRAX is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

AES wool (synthetic fibres, alkaline earth silicate) is not subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

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Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors. Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on drug precursors)

#### 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**

Abbreviations and acronyms:

Abbieviations and acronyms.		
AND	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:

Information provided by the manufacturer. European Chemicals Agency, http://echa.europa.eu/.

#### . CARE PROGRAMME

ECFIA, representing the high temperature insulation wool (HTIW) industry, has undertaken an extensive industrial hygiene program to provide assistance to the users of all products containing HTIW.

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