According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1 Product identifier

Product form : Substance Tradename : 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

1.2. Relevant identified uses 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 INSULCON B.V.

Zilverhoek 4, 4651 SP STEENBERGEN Belgium Germany

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INSULCON N.V.

INSULCON GMBH

www.insulcon.com

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

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

Not classified

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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 on CLP Annex VI : EC Index-No.: 650-016-00-2

2.3. Other hazards

Other hazards which do not result in 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

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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

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance

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

Note A: Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part

3.In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4.

Note Q: The classification as a carcinogen need not apply if it can be shown that the substance fulfils one of the following conditions: — a short term biopersistence test by inhalation has shown that the fibres longer than 20 μ m have a weighted half-life less than 10 days; or — a short term biopersistence test by intratracheal instillation has shown that the fibres longer than 20 μ m have a weighted half-life less than 40 days; or — an appropriate intra-peritoneal test has shown no evidence of excess carcinogenicity; or — absence of relevant pathogenicity or neoplastic changes in a suitable long term inhalation test.

Note R : The classification as a carcinogen need not apply to fibres with a length weighted geometric mean diameter less two standard geometric errors greater than 6 μm

3.2. Mixture

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. Remove

contact lenses, if present and easy to do. Continue rinsing.

First-aid measures after ingestion Rinse mouth. Do not induce vomiting.

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

Symptoms/effects after inhalation Irritating to the respiratory system and mucous membranes. mechanical irritation.

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representation for which we assume legal responsibility. Nothing contained here



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Symptoms/effects after skin contact Symptoms/effects after eye contact May cause slight temporary irritation. mechanical irritation. May cause slight temporary irritation to ocular mucous membranes. mechanical irritation.

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 firefighting 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

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

Prevent entry to sewers and public waters. Avoid sub-soil penetration.

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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

See Heading 7. See Heading 8. See Heading 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. Ensure good ventilation

of the work station. Use personal protective equipment as required. Do not breathe dust. Avoid contact with skin and

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: 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

9) (436083-

EU - Indicative Occupational Exposure Limit (IOEL)

Local name Man made vitreous fibers (MMVF)

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Remark	The NOEL of 30×10^6 WHO-f/m3 or 10×10^6 f with I > $20 \mu m$ 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 ($10 \times 10^6 \text{ fibres /m3}$ or 1 mg/m3). (Year of adoption 2002)	
Regulatory reference	SCOEL Recommendations	
United Kingdom - Occupational Exposure Limits		
Local name	MMMF (Machine-made mineral fibre)	
WEL TWA (OEL TWA) [1]	5 mg/m³ (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

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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

Eve protection:

Safety glasses with side shields. EN 166

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Leather protective gloves

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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:

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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. Fibres. Appearance Odour odourless. Odour threshold Not available > 1300 °C Melting point Not applicable Freezing point Not applicable **Boiling point** 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 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

Vapour pressure at 50°C

Density

Relative density

Not applicable

Not available

2.6 g/cm³

2.6

Relative vapour density at 20°C Not applicable Particle size Not available

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Particle size distribution

Particle shape `

Not available

Particle aspect ratio

Particle aggregation state

Particle agglomeration state

Particle specific surface area

Particle dustiness

Not available

Not available

Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2. Other safety characteristics

Relative evaporation rate (butylacetate=1: Not applicable Relative evaporation rate (ether=1) Not applicable

Other properties Length weighted geometric mean diameter of fibres ontained

in the product: $1,9 - 6 \mu m$.

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.

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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)

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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

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 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)

Additional information (OECD 471 method) (OECD 451 method)

Carcinogenicity: Not classified (Based on available data, the classification criteria are

not met)

Additional information (OECD 451 method)

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

not met)

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 earth silicate) (436083-99-7)

Viscosity, kinematic Not applicable

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

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.

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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

AES wool (synthetic fibres, alkaline earth s	ilicate) (436083-99-7)
Persistence and degradability	Not applicable.

12.3. Bioaccumulative potential

AES wool (synthetic fibres, alkaline earth silicate) (436083-99-7)	
Partition coefficient n-octanol/water (Log Kow)	Not applicable
Bioaccumulative potential	Not applicable.

12.4. Mobility in soil

AES wool (synthetic fibres, alkaline earth silicate) (436083-99-7)	
Ecology - soil	Not applicable.

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

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. Do not discharge into drains or the environment. Do not dispose of with domestic waste.

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Product/Packaging disposal recommendations: Recycle or dispose of in compliance with current legislation.

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	IATA	ADN	RID
	Product/Packaging		Product/Packaging	
	disposal		disposal	
	recommendations		recommendations	
14.1. UN number			European List o	of Waste (LoW) code
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper s	shipping name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport h	azard 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. Environmer	ntal hazards			
Dangerous for	Dangerous for the	Dangerous for	Dangerous for the	Dangerous
the	environment : No	the	environment : No	for the environment
environment :	Marine pollutant :	environment :		: No
No	No	No		
No supplementar	y information availab	le		

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





15. REGULATORY INFORMATION

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

15.1.1. EU-Regulations

REACH Annex XVII restrictions

Not listed on REACH Annex XVII

REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

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

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No additional information available

15.2. Chemical safety assessment

A chemical safety assessment has been carried out

16. OTHER INFORMATION

Abbreviations and acronyms:

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)
ATE	Acute Toxicity Estimate

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Bioconcentration factor
Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
Derived Minimal Effect level
Derived-No Effect Level
Median effective concentration
International Agency for Research on Cancer
International Air Transport Association
International Maritime Code for Dangerous Goods
Median lethal concentration
Median lethal dose
Lowest Observed Adverse Effect Level
No-Observed Adverse Effect Concentration
No-Observed Adverse Effect Level
No-Observed Effect Concentration
Organisation for Economic Co-operation and Development
Persistent Bioaccumulative Toxic
Predicted No-Effect Concentration
Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
Regulations concerning the International Carriage of Dangerous Goods by Rail
Safety Data Sheet
Sewage treatment plant
Median Tolerance Limit
Very Persistent and Very Bioaccumulative
Chemical Abstract Service number

Data sources:

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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 programme to provide assistance to the users of all products containing HTIW.

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The objectives are twofold:

- to monitor workplace dust concentrations at both manufacturers' and customers' premises.
- to document manufacturing and use of HTIW products from an industrial hygiene perspective in order to establish appropriate recommendations to reduce exposures.

. PRECAUTIONARY MEASURES TO BE TAKEN AFTER SERVICE UPON REMOVAL

In almost all applications high temperature insulating wools products (HTIW) are used as an insulating material helping to maintain temperature at 900°C or more in a closed space. As produced, HTIW are vitreous (glassy) materials which, upon continued exposure to elevated temperatures (above 900 °C) might de-vitrify. The occurrence and extent of crystalline phase formation is dependent on the duration and temperature of exposure, fibre chemistry and/or the presence of fluxing agents. As only a thin layer of the insulation hot face side is exposed to high temperature, respirable dust generated during removal operations does not typically contain detectable levels of crystalline silica (CS).

In applications where the material is heat soaked, duration of heat exposure is normally short and a significant de-vitrification allowing CS to build up does not occur. This is the case for waste mould casting for instance.

Toxicological evaluation of the effect of the presence of CS in artificially heated HTIW material has not shown any increased toxicity in vitro and in vivo. The results from different combinations of factors like increased brittleness of fibres, or microcrystals embedded in the glass structure of the fibre and therefore not biologically available may explain the lack of toxicological effects.

IARC evaluation as provided in Monograph 68 is not relevant as CS is not biologically available in after service HTIW and respirable dust generated during removals operations generally do not contain detectable levels of crystalline silica..

High concentrations of fibres and other dusts may be generated when after-service products are mechanically disturbed during operations such as wrecking. Therefore ECFIA recommends:

- control measures are taken to reduce dust emissions; and
- all personnel directly involved wear an appropriate respirator to minimise exposure and comply with local regulatory limits.

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