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

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1 Identification of the product

Trade names: Fiberfrax fibres

Product form : Substance
Chemical name : Aluminosilicate refractory ceramic fibres
EC Number : 650-017-00-8
CAS-Number : 142844-00-6
REACH registration Nr : 01-2119458050-50-000

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

Identification of the company

INSULCON B.V.
Zilverhoek 4, 4651 SP STEENBERGEN
Tel. : +31 (0)167-565750
info@insulcon.com
www.insulcon.com

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

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

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance/mixture

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

Carcinogenicity (inhalation) Category 1B H350i
Full text of hazard classes and H-statements: see section 16

Adverse physicochemical, human health and environmental effects

May cause cancer (if inhaled).

2.2 Label elements

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

Hazard pictograms (CLP)

GHS08

Signal Word : Danger

Form: A1-004
Effective: 04032025/ES
Supersedes: 11082023/ES/ka
All rights Reserved
LD:25/10/02

The information, recommendations and opinions set forth herein are offered solely for your consideration, inquiry and verification and are not, in part or total to be construed as constituting a warranty or representation for which we assume legal responsibility. Nothing contained herein is to be interpreted as authorization to practice a patented invention without a license. All rights reserved.

Hazard Statements	H350i	May cause cancer by inhalation
Precautionary statements:	P202	Do not handle until all safety precautions have been read and understood.
	P280	Wear eye protection, protective gloves, Respiratory protection.
	Restricted to professional users.	
	EC index no: 650-017-00-8	

Extra phrases
Listed in Annex VI:

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.

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

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Aluminosilicate refractory ceramic fibres substance listed as REACH candidate (Nota A) (Nota R)	(CAS No) 14244-00-6 (EC Index No) 650-017-00-8 (REACH-No) 01-2119458050-50-0001	100	Carc. 1B, H350i

Full text of H- and EUH-statements: see section 16

3.2 Mixture

Not applicable

4. FIRST AID MEASURES

4.1. Description of first aid measures

First-aid measures general	In case of doubt or persistent symptoms, consult always a physician.
First-aid measures after inhalation	Remove person to fresh air and keep comfortable for breathing.

Form: A1-004
Effective: 04032025/ES
Supersedes: 11082023/ES/ka
All rights Reserved
LD:25/10/02

The information, recommendations and opinions set forth herein are offered solely for your consideration, inquiry and verification and are not, in part or total to be construed as constituting a warranty or representation for which we assume legal responsibility. Nothing contained herein is to be interpreted as authorization to practice a patented invention without a license. All rights reserved.

First-aid measures after skin contact	Wash skin with plenty of water. 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	Ingestion unlikely.

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.

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 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

General measures:

Avoid creating or spreading dust. Do not breathe dust. Avoid contact with skin and eyes.

6.1.1. For non-emergency personnel

Protective equipment:

Concerning personal protective equipment to use, see section 8.

Emergency procedures:

Prohibit unauthorized persons. Only qualified personnel equipped with suitable protective equipment may intervene.

Form: A1-004
Effective: 04032025/ES
Supersedes: 11082023/ES/ka
All rights Reserved
LD:25/10/02

The information, recommendations and opinions set forth herein are offered solely for your consideration, inquiry and verification and are not, in part or total to be construed as constituting a warranty or representation for which we assume legal responsibility. Nothing contained herein is to be interpreted as authorization to practice a patented invention without a license. All rights reserved.

6.1.2. For emergency responders
Prohibit unauthorized persons. Only qualified personnel equipped with suitable protective Ensure adequate ventilation. Concerning personal protective equipment to use, see section 8.

6.2. Environmental precautions
Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for 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.
Other information	Disposal must be done according to official regulations.

6.4. Reference to other sections
Information for safe handling. See section 7. See Heading 8. See Heading 13.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Ensure good ventilation of the work station. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Avoid contact with skin and eyes. Do not breathe dust. Clean contaminated areas thoroughly.
Hygiene measures	Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Separate working clothes from town clothes. Launder separately.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	Product must only be kept in the original packaging. Store in a well-ventilated place. 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)
For professional users only. See Section 8. Exposure scenarios.

Form: A1-004
Effective: 04032025/ES
Supersedes: 11082023/ES/ka
All rights Reserved
LD:25/10/02

The information, recommendations and opinions set forth herein are offered solely for your consideration, inquiry and verification and are not, in part or total to be construed as constituting a warranty or representation for which we assume legal responsibility. Nothing contained herein is to be interpreted as authorization to practice a patented invention without a license. All rights reserved.

8. RISK MANAGEMENT MEASURES / EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control parameters

Aluminosilicate refractory ceramic fibres (142844-00-6)	
EU - Occupational Exposure Limits	
Local name	Refractory ceramic fibres
BOEL TWA	0.3 fibers/ml
Regulatory reference	DIRECTIVE (EU) 2019/130 (amending Directive 2004/37/EC)
United Kingdom - Occupational Exposure Limits	
Local name	Refractory ceramic fibres and special purpose fibres
WEL TWA (1)	5 mg/m³ total inhalable dust
WEL TWA (2)	0.3 fibers/ml respirable fraction
Remark (WEL)	Carc (Capable of causing cancer and/or heritable genetic damage)
Recommended monitoring procedures The UK follow MDHS 59 specific for MMVF	"Man-made mineral fibre - Airborne number concentration by phase-contrast light microscopy" and MDHS 14/3 "General methods for sampling and gravimetric analysis of respirable and inhalable dust". WHO-EURO method: Determination of airborne fibre number concentrations; A recommended method, by phase-contrast optical microscop
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

Form: A1-004
Effective: 04032025/ES
Supersedes: 11082023/ES/ka
All rights Reserved
LD:25/10/02

The information, recommendations and opinions set forth herein are offered solely for your consideration, inquiry and verification and are not, in part or total to be construed as constituting a warranty or representation for which we assume legal responsibility. Nothing contained herein is to be interpreted as authorization to practice a patented invention without a license. All rights reserved.

8.1.4. DNEL and PNEC

Aluminosilicate refractory ceramic fibres (142844-00-6)	
DNEL/DMEL (additional information)	
long term - Local, Inhalation	2,17 f/ml

Additional information:
The DNEL cited in the long term exposure section above is based on the incidence of lung tumours (non-significant at all treatment levels) in a multi-dose rat study reported by Mast et al (Inhalation Toxicology, 1995, 7(4), 469-502) which demonstrates a NOAEL of 162 f/ml and leads to the calculated endpoint-specific DNEL of 2.17 f/ml.
SCOEL have recommended an BOELV for RCF of 0.3 f/ml based on measured lung function in exposed workers. Assuming 45 years exposure, the average cumulative exposures of 147.9 (all workers in the high exposure group) and 184.8 fmo/ml (workers 60+ years of age in the high exposure group) - equivalent to average fibre concentrations of 0.27 and 0.34 f/ml respectively- were considered as no observed adverse effect levels for lung function and SCOEL therefore proposed an BOELV of 0.3 f/ml. This is considerably lower than the calculated DNEL value.

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
Eye protection:
Where excessive dust may result, wear goggles. Safety glasses with side shields. EN 166 8.2.2.2. Skin protection

8.2.2.2. Skin protection
Skin and body protection:
Impervious clothing. Do not take working clothes home

Hand protection:
Leather protective gloves

8.2.2.3. Respiratory protection
Respiratory protection:
If dust are formed : Wear appropriate mask. (FFP3)

8.2.2.4. Thermal hazards
No additional information available

LEADER IN HIGH TEMPERATURE SOLUTIONS

SAFETY DATASHEET

The information, recommendations and opinions set forth herein are offered solely for your consideration, inquiry and verification and are not, in part or total to be construed as constituting a warranty or representation for which we assume legal responsibility. Nothing contained herein is to be interpreted as authorization to practice a patented invention without a license. All rights reserved.

8.2.3. Environmental exposure controls

Other information:

Do not eat, drink or smoke during use; Do not take working clothes home; Separate working clothes from town clothes. Launder separately Uses and Risk Management Measures (RMM)

Intended use

Secondary use – Conversion into wet and dry mixtures and articles.

Process would include: Mixing forming operations, handling of RCF/ASW products, assembly of RCF/ASW containing products, machine and hand finishing of RCF/ASW products.

Reference ES 2* GOED

RMM-Hierarchy of Controls

- Where it is practical to do so, automatically feed RCF/ASW in to the process.
- Where practical to do so, segregate dry and wet processing
- Enclose the process where practically possible.
- Where practical to do so, segregate machine areas and restrict access to operators involved in the process.
- Enclose Machines as far as practically possible.
- Install LEV where possible, when machine finishing, handling, compressing and hand cutting to remove dust at source.
- Employ experienced personnel – trained in the correct use of fibrous products
- PPE and RPE used for all dusty tasks
- Provide vacuum cleaner connection point to central system where practical or use a portable HEPA vacuum
- Regular clean up – using a wet scrubbing unit where practically possible and in general a HEPA vacuum should be used.
- Dry brushing and use of compressed air should be prohibited
- Waste materials to be contained at source, labelled and stored separately for disposal or recycling.

Intended use

Tertiary use – maintenance and service life (Industrial or professional use)

Process: Small scale repairs involving removal and installation of RCF/ASW products. Use of the product in an enclosed system, where there is occasional control access or no access.

Reference ES 3*

RMM – Hierarchy of Controls

- Use pre-cut, pre-sized pieces where practically possible.
- Allow access only to trained (authorised) operators
- Where practically possible, perform all hand cutting in a segregated area, on a down draft bench.
- Clean-up work area regularly during the shift using a HEPA equipped vacuum cleaner.
- Prohibit use of dry brushing and compressed air cleaning.
- Bag and seal waste immediately at source.
- Use PPE and RPE appropriate to task.
- Employ good hygiene practices.

Form: A1-004
Effective: 04032025/ES
Supersedes: 11082023/ES/ka
All rights Reserved
LD:25/10/02

The information, recommendations and opinions set forth herein are offered solely for your consideration, inquiry and verification and are not, in part or total to be construed as constituting a warranty or representation for which we assume legal responsibility. Nothing contained herein is to be interpreted as authorization to practice a patented invention without a license. All rights reserved.

Intended use:
Tertiary use- installation and removal (industrial or professional).
Large scale removal and installation of RCF/ASW from Industrial processes.
Large scale removal and installation by professionals.
Reference ES 4*

RMM – Hierarchy of Controls

- Where practically possible enclose or segregate the work area.
- Allow only authorised personnel.
- Pre-wet insulation prior to removal where practically possible.
- Where practically possible use a water lance for removal or vacuum-truck.
- Use down draft bench for hand cutting products.
- Cover pre-cut section during transport and storage to prevent secondary exposure.
- Where practically possible provide multiple vacuum hoses for convenient clean-up of spillage or use portable HEPA filtered vacuums.
- Bag waste materials immediately at source
- Prohibit use of dry brushing and or compressed air cleaning.
- Experienced personnel only
- Use appropriate PPE and RPE appropriate to expected concentrations

9. 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
pH	: Not applicable
pH solution	: Not available
Melting point	: > 1650 °C Fibres
Freezing point	: Not available
Boiling point	: Not available
Flash point	: Not applicable
Explosive limits	: Not applicable
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Relative vapour density at 20 °C	: Not applicable
Relative density	: Not available
Density	: Not available
Solubility	: Water: < 1 mg/l

Partition coefficient n-octanol/water (Log Kow): Not available

Auto-ignition temperature	: Not self-igniting
Decomposition temperature	: Not available

Form: A1-004
Effective: 04032025/ES
Supersedes: 11082023/ES/ka
All rights Reserved
LD:25/10/02

The information, recommendations and opinions set forth herein are offered solely for your consideration, inquiry and verification and are not, in part or total to be construed as constituting a warranty or representation for which we assume legal responsibility. Nothing contained herein is to be interpreted as authorization to practice a patented invention without a license. All rights reserved.

Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Explosive properties	: Not explosive.
Oxidising properties	: Non oxidizing.

9.2. Other information

Other properties: Length weighted geometric mean diameter of fibres contained in the product: 1.4 - 3 µm

10. STABILITY AND REACTIVITY

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under normal use.

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)

Serious eye damage/ irritation:
Not classified (Based on available data, the classification criteria are not met)

LEADER IN HIGH TEMPERATURE SOLUTIONS

SAFETY DATASHEET

All rights Reserved
LD:25/10/02

The information, recommendations and opinions set forth herein are offered solely for your consideration, inquiry and verification and are not, in part or total to be construed as constituting a warranty or representation for which we assume legal responsibility. Nothing contained herein is to be interpreted as authorization to practice a patented invention without a license. All rights reserved.

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:
May cause cancer by inhalation

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

Aluminosilicate refractory ceramic fibres (142844-00-6)
Viscosity, kinematic 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
Basic toxicokinetic
Exposure is predominantly by inhalation or ingestion. Man-made vitreous fibres of a similar size to RCF/ASW have not been shown to migrate from the lung and/or gut and do not become located in other parts of the body When compared to many naturally occurring minerals, RCF/ASW has a low ability to persist and accumulate in the body (half-life of long fibres (> 20 µm) in 3 week rat inhalation test is approx. 60 days).

Human Toxicological data
In order to determine possible human health effects following RCF exposure, the University of Cincinnati has been conducting medical surveillance studies on RCF workers in the U.S. The Institute of Occupational Medicine (IOM) has conducted medical surveillance studies on RCF workers in European manufacturing facilities.
Pulmonary morbidity studies among production workers in Europe and USA have demonstrated an absence of interstitial fibrosis and no decrement in lung function associated with current exposures, but have indicated a reduction of lung capacity among smokers.
A statistically significant correlation between pleural plaques and cumulative RCF exposure was evidenced in the USA longitudinal study.

Form: A1-004
Effective: 04032025/ES
Supersedes: 11082023/ES/ka
All rights Reserved
LD:25/10/02

The information, recommendations and opinions set forth herein are offered solely for your consideration, inquiry and verification and are not, in part or total to be construed as constituting a warranty or representation for which we assume legal responsibility. Nothing contained herein is to be interpreted as authorization to practice a patented invention without a license. All rights reserved.

The USA mortality study did not show evidence of increased lung tumour development either in the lung parenchyma or in the pleura.

Irritant Properties
Negative results have been obtained in animal studies (EU method B 4) for skin irritation. Inhalation exposures using the nose only route produce simultaneous heavy exposures to the eyes, but no reports of excess eye irritation exist. Animals exposed by inhalation similarly show no evidence of respiratory tract irritation.
Human data confirm that only mechanical irritation, resulting in itching, occurs in humans, Screening at manufacturers' plants has failed to show any human cases of skin conditions related to fibre exposure.

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)

Aluminosilicate refractory ceramic fibres (142844-00-6)	
LC50 - Fish [1]	> 100 mg/l (96 h; Oncorhynchus mykiss; (OECD 203 method))
EC50 - Crustacea [1]	> 100 mg/l (48 h; Daphnia magna; (OECD 202 method))

12.2. Persistence and degradability

Aluminosilicate refractory ceramic fibres (142844-00-6)	
Persistence and degradability	Not applicable for inorganic substances.

12.3. Bioaccumulative potential

Aluminosilicate refractory ceramic fibres (142844-00-6)	
Bioaccumulative potential	Not relevant.

12.4. Mobility in soil

Aluminosilicate refractory ceramic fibres (142844-00-6)	
Ecology - soil	Not relevant.

All rights Reserved

The information, recommendations and opinions set forth herein are offered solely for your consideration, inquiry and verification and are not, in part or total to be construed as constituting a warranty or representation for which we assume legal responsibility. Nothing contained herein is to be interpreted as authorization to practice a patented invention without a license. All rights reserved.

12.5. Results of PBT and vPvB assessment

ALuminosilicate refractory ceramic fibres (142844-00-6)
This product does not contain substances at ≥0.1% that meet PBT criteria of REACH regulation, annex XIII.
This product does not contain substances at ≥0.1% that meet PBT criteria of REACH regulation, annex XIII.

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

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

14. TRANSPORT INFORMATION

In accordance with ADR, RID, IATA, IMDG, ADN.

ADR	IMDG	IATA	ADN	RID
14.1. UN number OR ID number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
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
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

14.6 Special precautions for user

- Overland transport Not applicable
- Transport by sea Not applicable

Form: A1-004
Effective: 04032025/ES
Supersedes: 11082023/ES/ka
All rights Reserved
LD:25/10/02

The information, recommendations and opinions set forth herein are offered solely for your consideration, inquiry and verification and are not, in part or total to be construed as constituting a warranty or representation for which we assume legal responsibility. Nothing contained herein is to be interpreted as authorization to practice a patented invention without a license. All rights reserved.

- Air transport	Not applicable
- Inland waterway transport	Not applicable
- Rail transport	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 environment regulations/legislation specific for the substance or mixture
15.1.1. EU-Regulations
REACH Annex XVII (Restriction List)
This substance is not listed on REACH Annex XVII (Restriction List)

REACH Annex XIV (Authorisation List)
This substance is not listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)
Listed on the REACH Candidate List: Aluminosilicate refractory ceramic fibres

PIC regulation (Prior Informed Conset)
This substance is not listed on the PIC List

POP Regulation (Persistent Organic Pollutants)
This substance is not listed on the POP List

Ozone Regulation (S.I. No. 168 of 2015)
This substance is not listed on the Ozone Depletion List

Control of Poisons and Explosives Precursors Act
This substance is not listed as a reportable poison on the Control of Poisons and Explosives Precursors Regulations
This substance is not listed as a regulated poison on the Control of Poisons and Explosives Precursors Regulations
This substance is not listed as a reportable explosive precursor on the Control of Poisons and Explosives Precursors Regulations This substance is not listed as a regulated poison on the Control of Poisons and Explosives Precursors Regulations

Drug Precursors Regulation (273/2004)
This substance is not listed on the Drug Precursors List

15.2. Chemical safety assessment
No additional information available

16. OTHER INFORMATION

CARE PROGRAMME

All rights Reserved

The information, recommendations and opinions set forth herein are offered solely for your consideration, inquiry and verification and are not, in part or total to be construed as constituting a warranty or representation for which we assume legal responsibility. Nothing contained herein is to be interpreted as authorization to practice a patented invention without a license. All rights reserved.

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.
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.

Full text of H- and EUH-statements:	
Carc. 1B	Carcinogenicity (inhalation) Category 1B
H350i	May cause cancer by inhalation.

The information presented on this SDS (1) provides details on material identity, manufacturer/supplier information, hazard characterization and prevention, emergency response and other specialized information, (2) is considered to be accurate to the best of our knowledge, information and good faith belief as of the date of publication, (3) is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release of the material named, (4) should be read and used in conjunction with the company's relevant literature, (5) relates only to the specific material designated and may not be valid for such material used in combination with any other material or process and (6) is provided without warranty, expressed or implied, in law or in fact, of merchantability or fitness for a particular purpose. This document does not constitute a product specification and should not be relied on as such. 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.

All rights Reserved

The information, recommendations and opinions set forth herein are offered solely for your consideration, inquiry and verification and are not, in part or total to be construed as constituting a warranty or representation for which we assume legal responsibility. Nothing contained herein is to be interpreted as authorization to practice a patented invention without a license. All rights reserved.