FIBERFRAX PUMPABLE 140

No 1907/2006 and (EC) No 1272/2008

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

1.1. Product identifier

Product form : Mixture
Trade name : FIBERFRAX PUMPABLE 140
UFI : 0D4A-D014-900F-J3F4
Product code : 415 **CE or mixture and uses advised**

1.2. Relevant identified uses of the substance

1.2.1. Relevant identified uses

Main use category : Industrial use
Use of the substance/mixture : For industrial use within high temperature applications.

1.3. Identification of the company

INSULCON B.V.
The Netherlands
Tel. : +31 (0)167-565750
Website: www.insulcon.com
Email: info@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 or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Carcinogenicity (inhalation) Category 1B H350i
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects
No additional information available

2.2. Label elements

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

GHS08

Signal word (CLP)	: Danger
Contains	: Aluminosilicate refractory ceramic fibres
Hazard statements (CLP)	: H350i - May cause cancer by inhalation.
Precautionary statements (CLP)	: P201 - Obtain special instructions before use. P280 - Wear protective gloves, eye protection, face protection. P308+P313 - IF exposed or concerned: Get medical advice/attention.

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EUH-statements	: EUH208 - Contains METHYLISOTHIAZOLINONE. May produce an allergic reaction.
Extra phrases	: Restricted to professional users.
2.3. Other hazards Other hazards which do not result in classification	: May cause mechanical irritation to the skin, eyes and respiratory system.
PBT: not relevant – no registration required vPvB: not relevant – no registration required	

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component	
Aluminosilicate refractory ceramic fibres (142844-006)	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
Potassium hydroxide (1310-58-3)	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
2-methyl-2H-isothiazol-3-one (2682-20-4)	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 mixture does not contain substance(s) 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 at a concentration equal to or greater than 0,1 %

Component	
Aluminosilicate refractory ceramic fibres(142844-00-6)	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. Substances
Not applicable

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3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Aluminosilicate refractory ceramic fibres substance listed as REACH Candidate substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit (Note A)(Note R)	CAS-No.: 142844-00-6 EC Index-No.: 650-017-00-8 REACH-no: 01-211945805050-0000	≥ 25 – < 50	Carc. 1B, H350i
Potassium hydroxide substance with national workplace exposure limit(s) (GB)	CAS-No.: 1310-58-3 EC-No.: 215-181-3 EC Index-No.: 019-002-00-8	≥ 0.1 – < 0.25	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 (ATE=333 mg/kg bodyweight) Skin Corr. 1A, H314
2-methyl-2H-isothiazol-3-one	CAS-No.: 2682-20-4 EC-No.: 220-239-6 EC Index-No.: 613-326-00-9 REACH-no: 01-212076469050-xxxx	< 0.1	Acute Tox. 2 (Inhalation), H330 (ATE=0.1 mg/l/4h) Acute Tox. 3 (Dermal), H311 (ATE=242 mg/kg bodyweight) Acute Tox. 3 (Oral), H301 (ATE=120 mg/kg bodyweight) Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 EUH071

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Specific concentration limits:		
Name	**Product identifier**	**Specific concentration limits**
Potassium hydroxide	CAS-No.: 1310-58-3 EC-No.: 215-181-3 EC Index-No.: 019-002-00-8	(0.5 ≤C < 2) Eye Irrit. 2, H319 (0.5 ≤C < 2) Skin Irrit. 2, H315 (2 ≤C < 5) Skin Corr. 1B, H314 (5 ≤C < 100) Skin Corr. 1A, H314
2-methyl-2H-isothiazol-3-one	CAS-No.: 2682-20-4 EC-No.: 220-239-6 EC Index-No.: 613-326-00-9 REACH-no: 01-212076469050-xxxx	(0.0015 ≤C ≤ 100) Skin Sens. 1A, H317

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

4. FIRST AID MEASURES

SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures after inhalation	:	Move to fresh air. If you feel unwell, seek medical advice.
First-aid measures after skin contact	:	Gently wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. Get medical advice if skin irritation persists.
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/effects after skin contact : mechanical irritation. Allergic reactions. Symptoms/effects after eye contact : 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: 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 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

6.1.2. For emergency responders : Prohibit unauthorized persons.
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. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

6.4. Reference to other sections
See section 7. See Heading 8. See Heading 13.

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. Clean contaminated areas thoroughly. Ensure good ventilation of the work station.

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7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Product must only be kept in the original packaging. Keep container closed when not in use. Protect against frost.
Storage temperature: 5 – 20°C

7.3. Specific end use(s)
For professional users only. See Section 8. Exposure scenarios.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

8.1. Control parameters
8.1.1 National occupational exposure and biological limit values

Aluminosilicate refractory ceramic fibres (142844-00-6)	
EU - Binding Occupational Exposure Limit (BOEL)	
Local name	Refractory ceramic fibres which are carcinogens
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 (OEL TWA) [1]	5 mg/m³ total inhalable dust
WEL TWA (OEL TWA) [2]	0.3 fibers/ml respirable fraction
Remark	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

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8.1.4. DNEL and PNEC

1,2-benzisothiazol-3(2H)-one (2634-33-5)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	0.966 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	6.81 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects, inhalation	1.2 mg/m³
Long-term - systemic effects, dermal	0.345 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	4.03 µg/L
PNEC aqua (marine water)	0.403 µg/L
PNEC aqua (intermittent, freshwater)	1.1 µg/L
PNEC aqua (intermittent, marine water)	0.11 µg/L
PNEC (Sediment)	
PNEC sediment (freshwater)	49.9 µg/kg dw
PNEC sediment (marine water)	4.99 µg/kg dw
PNEC (Soil)	
PNEC soil	3 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	1.03 mg/l

2-methyl-2H-isothiazol-3-one (2682-20-4)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	0.043 mg/m³
Long-term - local effects, inhalation	0.021 mg/m³

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DNEL/DMEL (General population)	
Acute - systemic effects, oral	0.053 mg/kg bodyweight/day
Acute - local effects, inhalation	0.043 mg/m³
Long-term - systemic effects,oral	0.027 mg/kg bodyweight/day
Long-term - local effects, inhalation	0.021 mg/m³
PNEC (Water)	
PNEC aqua (freshwater)	3.39 µg/L
PNEC aqua (marine water)	3.39 µg/L
PNEC aqua (intermittent, freshwater)	3.39 µg/L
PNEC aqua (intermittent, marine water)	3.39 µg/L
PNEC (Soil)	
PNEC soil	0.047 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	0.23 mg/l

Additional information:
Aluminosilicate refractory ceramic fibres. 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: No additional information available

8.2.2. Personal protection equipment
8.2.2.1. Eye and face protection
Eye protection: Safety glasses with side shields. EN 166

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8.2.2.2. Skin protection

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

Hand protection:
Chemical resistant PVC gloves (to European standard EN 374 or equivalent)

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

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*
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*

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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.

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 cleanup 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	: Liquid
Colour	: white.
Appearance	: Paste.
Odour	: Not available
Odour threshold	: Not available
Melting point	: > 1650 °C Fibres
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not applicable Not applicable

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Explosive properties	: Product is not explosive.
Oxidising properties	: Non oxidizing.
Explosive limits	: Not applicable
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: Not available
Auto-ignition temperature	: Not self-igniting
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Solubility	: Water: Slightly soluble
Partition coefficient n-octanol/water (Log Kow)	: Not available
Partition coefficient n-octanol/water (Log Pow)	: Not applicable
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 1050 kg/m³
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

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

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.

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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. Informations sur les effets toxicologiques

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)

2-methyl-2H-isothiazol-3-one (2682-20-4)	
LD50 oral rat	120 mg/kg bodyweight (EPA OPPTS 870.1100)
LD50 dermal rat	242 mg/kg bodyweight (OECD 402 method)
LC50 Inhalation - Rat (Dust/Mist)	0.1 mg/l/4h (OECD 403 method)

Potassium hydroxide (1310-58-3)	
LD50 oral rat	333 mg/kg bodyweight (7 d; male; (OECD 425 method))

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: May cause cancer by inhalation.

Additional information
Method: Nose only Inhalation.
Multi-dose Species: Rat, Dose: 3 mg/m3, 9 mg/m3 and 16 mg/m3 for 24 months Results: Minimal to mild lung fibrosis at 9mg/m3 and 16 mg/m3. No evidence of RCFrelated lung tumours at "any of these doses."

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Method: Nose only Inhalation.
Single dose Species: Rat, Dose: 30 mg/m3.
Results: This study was designed to test the chronic toxicity and carcinogenicity of RCF at extreme exposures. Tumour incidence (incl. mesothelioma) was raised at this dose level. The presence of overload conditions (only detected after the experiment was completed), whereby the delivered dose exceeded the clearance capability of the lung, makes meaningful conclusions in terms of hazard and risk assessment difficult.

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)

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties Basic toxicokinetic

11.2.2. Other information

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 loss in lung function was observed in the longitudinal study with RCF exposure.
A statistically significant correlation between pleural plaques and cumulative RCF exposure was evidenced in the USA longitudinal study.
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 in the UK has failed to show any human cases of skin conditions related to fibre exposure.

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12. ECOLOGICAL INFORMATION

12.1. Toxicity
Hazardous to the aquatic environment, short–term:
Not classified (Based on available data, the classification criteria are not met)
(acute)

Hazardous to the aquatic environment, long–term:
Not classified (Based on available data, the classification criteria are not met) (chronic)

2-methyl-2H-isothiazol-3-one (2682-20-4)	
EC50 - Crustacea [1]	0.934 mg/l (48 h; Daphnia magna; (OECD 202 method))
EC50 72h algae	0.103 mg/l (72 h, Pseudokirchneriella Subcapita; (OECD 201 method))
ErC50 algae	0.072 mg/l (OECD 201 method)
NOEC chronic fish	4.93 mg/l (98 d; Oncorynchus mykiss; (OECD 210 method))
NOEC chronic crustacea	0.044 mg/l (21 d; Daphnia magna; (OECD 211 method))
NOEC chronic algae	0.05 mg/l (5 d; Pseudokirchneriella subcapitata; (OECD 201 method))

12.2. Persistence and degradability

2-methyl-2H-isothiazol-3-one (2682-20-4)	
Persistence and degradability	Not readily biodegradable. (OECD 301B method). (OECD 301D method).
Aluminosilicate refractory ceramic fibres844-00-6) (142	
Persistence and degradability	Not applicable for inorganic substances.
Potassium hydroxide (1310-58-3)	
Persistence and degradability	Not applicable for inorganic substances.

12.3. Bioaccumulative potential

FIBERFRAX PUMPABLE 140	
Partition coefficient n-octanol/water (Log Pow)	Not applicable
2-methyl-2H-isothiazol-3-one (2682-20-4)	

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Partition coefficient n-octanol/water (Log Pow)	-0.486 (25 °C; (OECD 107 method))
Bioaccumulative potential	Bioaccumulation unlikely.
Potassium hydroxide (1310-58-3)	
Partition coefficient n-octanol/water (Log Pow)	Not applicable.
Partition coefficient n-octanol/water (Log Kow)	Not applicable.
Bioaccumulative potential	Not applicable for inorganic substances.

12.4. Mobility in soil

2-methyl-2H-isothiazol-3-one (2682-20-4)	
Surface tension	68.8 mN/m (19 °C, EEC Method A5)
Ecology - soil	Low mobility (soil).

12.5. Results of PBT and vPvB assessment

FIBERFRAX PUMPABLE 140
PBT: not relevant – no registration required
vPvB: not relevant – no registration required

12.6. Endocrine disrupting properties

No additional information available

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: 6 03 03* - inorganic wastes containing dangerous substances
HP Code: HP7 - “Carcinogenic:” waste which induces cancer or increases its incidence

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14. TRANSPORT INFORMATION

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Notn 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. Dangers pour l'environnement				
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 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
Other information, restriction and prohibition:
Take note of Directive 94/33/EC on the protection of young people at work. Take note of regulations Directive 92/85/EC on the safety and health of pregnant workers at work.

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REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)	
Reference code	**Applicable on**
28.	Aluminosilicate refractory ceramic fibres
3(b)	FIBERFRAX PUMPABLE 140

REACH Annex XIV (Authorisation List)
Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)
Contains substance(s) listed on the REACH Candidate List in concentrations ≥ 0.1 % or SCL:
Aluminosilicate refractory ceramic fibres (CAS
142844-00-6)

PIC Regulation (Prior Informed Consent)
Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)
Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)
Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

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
United Kingdom
National regulations : Take note of Directive 92/85/EC on the safety and health of pregnant workers at work.

15.2. Chemical safety assessment
For the following substances of this mixture a chemical safety assessment has been carried out:
Aluminosilicate refractory ceramic fibres

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16. OTHER INFORMATION

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 Rail
PBT	Persistent Bioaccumulative Toxic
vPvB	Very Persistent and Very Bioaccumulative
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
DMEL	Derived Minimal Effect level
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PNEC	Predicted No-Effect Concentration
SDS	Safety Data Sheet
STP	Sewage treatment plant
TLM	Median Tolerance Limit

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