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

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1. Product identifier

Trade name: Fibermax

Chemical name: Polycrystalline wools (PCW)

EC no: 614-074-2 CAS No: 675106-31-7

REACH registration No: 01-2119456884-25-0003

Product code: 371

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.

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Delgium German

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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] Extra labelling to display

Extra classification(s) to display

No labelling applicable

2.3. Other hazards

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Other hazards not contributing to the respiratory system:

May cause mechanical irritation to the skin, eyes and

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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3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. SubstancesName	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Polycrystalline wools (PCW)	(CAS No) 675106-31-7 (EC no) 614-074-2	-	Not classified
	(REACH-no) 01- 2119456884-25-0003		

Comments:

PCW can also be identified by a combination of CAS Numbers: 1344-28-1 (fibrous forms of

Aluminium Oxide), 7631-86-9 (Silica, non-crystalline), or 1302-93-8 (Mullite)

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

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4. FIRST AID MEASURES

4.1. Description of first aid measures

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. 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 mou

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

Symptoms/injuries after skin contact : mechanical irritation. Symptoms/injuries after eye contact : mechanical irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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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 fire fighting 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.

Fibermax

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Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

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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).

6.4. Reference to other sections

See section 7. See Heading 8. See Heading 13.

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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. Clear contaminated areas thoroughly. Ensure good ventilation of the work station. Hygiene measures: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking 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

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

7.3. Specific end use(s)

For professional users only. See Heading 8.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

8.1. Control parameters

Polycrystalline wools (PCW) (675106-31-7)

United Kingdom Remark (WEL) TWA 8 hr 2 f/ml; 5 mg/m3 (total dust); Machine-made mineral fibres: Work place Exposure Limit EH40

8.2. Exposure controls

Hand protection: Protective gloves

Eye protection: Safety glasses with side shields Skin and body protection Wear suitable protective clothing

Respiratory protection In case of insufficient ventilation, wear suitable respiratory

equipment. If dust are formed: Short term exposure. (FFP2)

Wash contaminated clothes. Other information

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Solid Physical state **Appearance** Fibres. Colour White. Odour Odourless.

Odour threshold No data available Not applicable На Relative evaporation rate (butylacetate=1) No data available

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Melting point > 1800 °C

Freezing point No data available **Boiling point** Not applicable Flash point Not applicable Auto-ignition temperature No data available Decomposition temperature e No data available Flammability (solid, gas): No data available Vapour pressure Not applicable Relative vapour density at 20 °C No data available Relative density No data available 2 - 3.5 g/cm³ Density Solubility Water: < 1 mg/l Log Pow No data available Log Kow Not applicable Viscosity, kinematic Not applicable Not applicable Viscosity, dynamic **Explosive properties** No data available Oxidising properties No data available

9.2. Other information

Explosive limits

Other properties : Length weighted geometric mean diameter of fibres contained in the product: 3-4 μm .

No data available

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

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11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity:

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

Skin corrosion/irritation:

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

Serious eye damage/irritation:

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

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

Reproductive toxicity:

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

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

Other information:

Chronic effects:

Lifetime rat inhalation studies of polycrystalline fiber show that at the maximum dose level tested, there was no evidence of lung cancer, lung fibrosis or any other significant adverse effect. Intraperitoneal, intratracheal and intrapleural studies in rats, together with two in vitro tests, have all shown negative results. Despite some study limitations, it is important to note the consistent lack of carcinogenic response in animal studies.

In 1988, the International Agency for Research on Cancer (IARC) considered the carcinogenicity of several groups of fibers. One grouping they considered was a poorly defined collection of disparate fiber types [polycrystalline fiber, refractory ceramic fiber (referred to as RCF) and single crystal whiskers] into a broad, single category they termed "ceramic fibers".

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The IARC monograph clearly indicated that test data specific to polycrystalline fibers were negative, but according to the IARC classification principles, positive results with other fiber types led to the conclusion that all fibers in the group should be considered as possible human carcinogens (IARC Category 2B). In a subsequent monograph on MMVF (2002), IARC did not specifically re-evaluate polycrystalline fiber. The Annual Report on Carcinogens prepared by the National Toxicology Program (NTP), (latest edition) classified "ceramic fibers (respirable size)" as reasonably anticipated to be carcinogens.

As produced most polycrystalline fibers, including Fibermax, have fiber diameters too large to be respirable. Numerous scientific studies suggest that the potential toxicity of a respirable fiber is directly related to bio-persistence (the length of time it take for the fiber to clear the lung). Based on limited in-vitro laboratory analysis, which measure the dissolution rate of fibers in simulated lung fluid, polycrystalline fibers are known to be relatively durable. Data from respiratory surveillance studies are not available for PCW workers. In a small cohort of workers exposed to PCW with historical co-exposures to RCF and other fibers, there was no evidence of interstitial lung disease on chest x-rays nor an accelerated rate of loss of lung function on pulmonary function testing. Symptom responses could not be attributed to or excluded from exposure to PCW as a consequence of the prior fiber exposures.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

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Ecology - general: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Polycrystalline wools (PCW) (675106-31-7)

Log Kow Not applicable

Bioaccumulative potential Bioaccumulation unlikely.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Polycrystalline wools (PCW) (675106-31-7)

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

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13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste disposal recommendations:

Dispose in a safe manner in accordance with local/national regulations.

European List of Waste (LoW) code:

16 03 04 - inorganic wastes other than those mentioned in 16 03 03

14. TRANSPORT INFORMATION

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

ADR IMDG IATA ADN RID

14.1. UN number

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Not applicable Not applicable Not applicable Not applicable

14.2. UN proper shipping name

Not applicable Not applicable

14.3. Transport hazard class(es)

Not applicable Not ap

14.4. Packing group

Not applicable Not applicable Not applicable Not applicable

14.5. Environmental hazards

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

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

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15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Polycrystalline wools (PCW) is not on the REACH Candidate List

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

A chemical safety assessment has been carried out

16. OTHER INFORMATION

Indication of changes:

General revision.

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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

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