

According to (EC) No 1907/2006

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

### 1.1. Product identifier

Product form : Mixture  
Trade name : Insulmould® 1400  
Product group : Trade product

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

#### 1.2.1. Relevant identified uses

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

#### 1.2.2. Uses advised against

No additional information available

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

#### 1.2.1 Relevant identified uses

Industrial/ Professional use spec: For professional use only  
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

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## 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 statements: see section 16

### Adverse physicochemical, human health and environmental effects

This product is an article and has not to be classified and labelled according to the current laws and regulations. A safety data sheet is not required for this product under Article 31 of REACH. This Product Safety Information Sheet has been created on a voluntary basis.

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## 2.2 Label elements

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



GHS08

Signal word	:	Danger
Contains	:	alumino silicate fibres
Hazard statements (CLP)	:	H350i - May cause cancer by inhalation.
Precautionary statements (CLP)	:	P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves, protective clothing, eye protection, face protection. P308+P313 - IF exposed or concerned: Get medical advice, medical attention. P405 - Store locked up. P501 - Dispose of contents and container to an approved waste disposal plant.
Extra phrases	:	Restricted to professional users.

## 2.3. Other hazards

Other hazards:

Results of PBT and vPvB assessment : Not applicable. Risk of dust explosion.

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

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Not applicable

Comments: Binders + Fibres. Typical composition : SiO<sub>2</sub> (47-48%) - Al<sub>2</sub>O<sub>3</sub> (51-55%)

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
alumino silicate fibres substance listed as REACH Candidate	(CAS-No.) 142844-00-6 (EC-No.) 604-314-4 (EC Index) 650-017-00-8	< 100	Carc. 1B, H350i

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## 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

Additional advice	:	First aider: Pay attention to self-protection!. Concerning personal protective equipment to use, see section 8. Never give anything by mouth to an unconscious person. In case of doubt or persistent symptoms, consult always a physician. Show this safety data sheet to the doctor in attendance.
Inhalation	:	Remove casualty to fresh air and keep warm and at rest. Get medical advice/attention.
Skin contact	:	Remove contaminated clothing and shoes. Gently wash with plenty of soap and water. In case of doubt or persistent symptoms, consult always a physician.
Eyes contact	:	Rinse immediately carefully and thoroughly with eye-bath or water. In case of doubt or persistent symptoms, consult always a physician.
Ingestion	:	Drink plenty of water. Rinse mouth thoroughly with water. Do not induce vomiting without medical advice. Get medical advice/attention.

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

Inhalation	:	May cause cancer by inhalation. Inhalation of dust may cause irritation of the respiratory system.
Skin contact	:	May cause skin irritation. Contact with dust may cause mechanical irritation or drying of the skin.
Eyes contact	:	Dust may cause painful eye irritation and tearing.
Ingestion	:	Ingestion unlikely. Gastrointestinal complaints.

### 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	:	carbon dioxide (CO <sub>2</sub> ), powder, alcohol-resistant foam, water spray.
Unsuitable extinguishing media:		Strong water jet.

### 5.2. Special hazards arising from the substance or mixture

Specific hazards	:	Not flammable. Risk of dust explosion.
Hazardous decomposition products in case of fire	:	Silicon oxides. Aluminium oxides.

### 5.3. Advice for firefighters

Firefighting instructions	:	Evacuate area. Use water spray or fog for cooling exposed containers. Contain the extinguishing fluids by bunding. Prevent firefighting water from entering the environment.
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Protection during firefighting	:	Avoid dust formation. Knock down/dilute dust cloud with water spray. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.
Other information	:	Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

For non-emergency personnel:

Evacuate unnecessary personnel. Keep upwind. Provide adequate ventilation. Wear recommended personal protective equipment. Concerning personal protective equipment to use, see section 8. Do not breathe dust. Avoid contact with skin, eyes and clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure equipment is adequately earthed. Use explosion-proof equipment. Use only non-sparking tools.

#### 6.1.2. For emergency responders

For emergency responders:

Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Notify authorities if product enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up:

Stop leak if safe to do so. Dam up the solid spill. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Large spills: scoop solid spill into closing containers. This material and its container must be disposed of in a safe way, and as per local legislation. Avoid dust formation. Knock down/dilute dust cloud with water spray.

### 6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 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. Provide adequate ventilation. Use personal protective equipment as required.

Concerning personal protective equipment to use, see section 8. Do not breathe dust. Avoid contact with skin, eyes and clothing. Take any precaution to avoid mixing with Incompatible materials, Refer to Section 10 on Incompatible Materials. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Avoid release to the environment. Avoid dust formation. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools.

#### Hygiene measures:

Keep good industrial hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	:	Store locked up. Store in a dry, cool and well-ventilated place. Protect from moisture. Avoid dust formation.
Incompatible materials	:	No information available.
Maximum storage duration	:	6 months
Storage temperature	:	5 – 20 °C
Heat and ignition sources	:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Special rules on packaging	:	Regularly check for damage to packaging.
Packaging materials	:	Keep only in the original container.

### 7.3. Specific end use(s)

Reference to other sections : 1.2.

## 8. RISK MANAGEMENT MEASURES / EXPOSURE CONTROL / PERSONAL PROTECTION

### 8.1 Control parameters

alumino silicate fibres (142844-00-6)		
EU	IOEL TWA	0,3 fibers/mL (carcinogens within the meaning of point (i) of Article 2(a))
Belgium	OEL TWA	0,5 fibers/cm <sup>3</sup>
Bulgaria	OEL TWA	0,3 fibers/m <sup>3</sup> (applies to carcinogenic compounds within the meaning of paragraph(1a) of Article 1 of the additional provisions of the Regulation)

Croatia	GVI (OEL TWA) [1]	0,3 fibers/cm <sup>3</sup> (applies to fireproof ceramic fibers classified as carcinogenic substances)
France	VME (OEL TWA)	0,1 fibers/cm <sup>3</sup> (restrictive limit)
<b>alumino silicate fibres (142844-00-6)</b>		
Hungary	AK (OEL TWA)	0,3 fibers/cm <sup>3</sup>
Ireland	OEL TWA [1]	0,3 fibers/mL
Ireland	OEL STEL	0,9 fibers/mL (calculated)
Italy	OEL TWA	0,3 fibers/mL (carcinogens with the meaning of point (i) Article 2(a))
Lithuania	IPRV (OEL TWA)	0,3 fibers/cm <sup>3</sup>
Poland	NDS (OEL TWA)	0,3 fibers/cm <sup>3</sup> (applies to refractory ceramic fibers of Carcinogen category 1.B within the meaning of the Regulation (EC) No 1272/2008 and whose geometric fiber diameter weighted by the length of the less two standard geometric errors is less than 6 µm)
Portugal	OEL TWA	0,3 fibers/mL (respirable fibers, length >5 µm, aspect ratio equal to or greater than 3:1)
Slovenia	OEL TWA	0,3 fibers/m <sup>3</sup>
Spain	VLA-ED (OEL TWA) [1]	0,3 fibers/cm <sup>3</sup> (carcinogenic agent associated to the binding limit values provided in Royal Decree 665/1997, as amended-inhalable fraction)
Spain	VLA-EC (OEL STEL)	0,3 fibers/cm <sup>3</sup> (fibers with a random orientation, with a content in alkaline and alkali-earth oxide [Na <sub>2</sub> O+K <sub>2</sub> O+CaO+MgO+BaO] above 18% in weight-inhalable fraction)
Sweden	NGV (OEL TWA)	0,2 fibers/cm <sup>3</sup> (fibres which have a length-width relationship greater than 3:1-respirable fiber (Fibres, synthetic inorganic glass fibres))
United Kingdom	WEL TWA (OEL TWA) [1]	0,3 fibers/mL (respirable fraction) 5 mg/m <sup>3</sup> (total inhalable dust)
United Kingdom	WEL STEL (OEL STEL)	0,9 fibers/mL (calculated) 15 mg/m <sup>3</sup> (calculated)
Canada (Quebec)	VEMP (OEL TWA)	0,2 fibers/cm <sup>3</sup> (ceramic or others-respirable (Fibres - Artificial Vitreous Mineral Fibres))
USA - ACGIH	ACGIH OEL TWA	0,2 fibers/cm <sup>3</sup> (respirable fibers: length >5 µm, aspect ratio >=3:1, as determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase-contrast illumination (Synthetic vitreous fibers))

## **8.2 Exposure Controls**

Engineering measure(s):

Provide adequate ventilation. Organisational measures to prevent /limit releases, dispersion and exposure. See Section 7 for information on safe handling. Apply measures to prevent dust explosions. Ensure equipment is adequately earthed.

Personal protective equipment:

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hand protection:

Wear chemically resistant gloves (tested to EN374) . Suitable material: Not determined. Thickness : Not determined. Breakthrough time : refer to the recommendations of the supplier. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Eye protection:

Use suitable eye protection (EN 166): Safety glasses with side shields

Body protection:

Wear suitable protective clothing. Overalls, apron and boots recommended.

Respiratory protection:

Wear suitable respiratory protection. Effective dust mask (EN 149). Half-face mask (DIN EN 140). full face mask (DIN EN 136). Filter type: P (EN 143). When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Thermal hazard protection:

Not required for normal conditions of use. Use dedicated equipment.

Environmental exposure controls:

Avoid release to the environment. Comply with applicable Community environmental protection legislation.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

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

Physical state	: White solid
Appearance	: paste
Colour	: Whitish
Odour	: odourless.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate = 1)	: No data available
Melting point	: > 1500°C fibres
Freezing point	: No data available
Boiling point	: No data available

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Flash point	: Not applicable
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20°C	: No data available
Relative density	: 1350 kg/m <sup>3</sup> wet
Solubility	: Water: Insoluble
Log Pow	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Explosive properties	: Not applicable. The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.
Oxidising properties	: Not applicable. The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.
Explosive limits	: No data available
Particle size	: Not available
Particle size distribution	: Not available
Particle shape	: Not available
Particle aspect ratio	: Not available
Particle aggregation state	: Not available
Particle agglomeration state	: Not available
Particle specific surface area	: Not available
Particle dustiness	: Not available

## **9.2 Other information**

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

No additional information available

### **9.2.2. Other safety characteristics**

No additional information available

## **10. STABILITY AND REACTIVITY**

### **10.1 Reactivity**

None under normal conditions. Reference to other sections: 10.4 & 10.5.

### **10.2 Chemical stability**

The product is stable at normal handling and storage conditions.

### **10.3 Possibility of hazardous reactions**

No dangerous reactions known under normal conditions of use.

## **10.4 Conditions to avoid**

Avoid dust formation. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Prevent moisture contact. Protect against water. See Section 7 for information on safe handling.

## **10.5 Incompatible materials**

No information available. See Section 7 for information on safe handling.

## **10.6 Hazardous decomposition products**

Reference to other sections 5.2.

## **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:

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)

Kinematic viscosity:

No data available

Other information:

Symptoms related to the physical, chemical and toxicological characteristics. For further information see section 4.

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties:

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

### 11.2.2 Other information

Other information:

Symptoms related to the physical, chemical and toxicological characteristics. For further information see section 4

## 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

Environmental properties : Ecological problems are not known or expected under normal use.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

### 12.2. Persistence and degradability

Persistence and degradability : No additional information available.

### 12.3. Bioaccumulative potential

Partition coefficient n-octanol/water : No data available

Bioaccumulative potential : No additional information available.

alumino silicate fibres (142844-00-6)

Partition coefficient n-octanol/water : No data available

### 12.4. Mobility in soil

Mobility in soil : No data available

### 12.5. Results of PBT and vPvB assessment

Results of PBT assessment : Not applicable

## 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties:

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

## 12.7. Other adverse effects

Other adverse effects:

No data available

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Product/Packaging disposal recommendations:

Avoid release to the environment. Dispose of empty containers and wastes safely. See Section 7 for information on safe handling. Refer to manufacturer/supplier for information on recovery/recycling. Recycling is preferred to disposal or incineration. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations. Handle contaminated packages in the same way as the substance itself. Dispose of contaminated materials in accordance with current regulations.

European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC):

This material and its container must be disposed of as hazardous waste Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities The following Waste Codes are only suggestions: 17 06 03\*

## 14. TRANSPORT INFORMATION

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

ADR	IMDG	IATA	AND	RID
<b>14.1 UN Number</b>				
Not regulated for transport				
<b>14.2 UN proper shipping name</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3 Transport hazard class(es)</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4 Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5 Environmental hazards</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available.				

### 14.6 Special precautions for user

Special precautions for user: No data available

-Overland transport  
Not applicable

-Transport by sea  
Not applicable

-Air transport  
Not applicable

-Inland waterway transport  
Not applicable

-Rail transport  
Not applicable

#### 14.7. Maritime transport in bulk according to IMO instruments

Code: IBC: No data available.

### 15. REGULATORY INFORMATION

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

##### 15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006: 28. Substances which are classified as carcinogen category 1A or 1B in Part 3 of Annex VI to Regulation (EC) No 1272/2008 and are listed in Appendix 1 or Appendix 2, respectively:

Aluminosilicate refractory ceramic fibres

Contains a substance on the REACH candidate list in concentration  $\geq 0.1\%$  or with a lower specific limit: Aluminosilicate refractory ceramic fibres (CAS 142844-00-6)

Contains no REACH Annex XIV substances

##### 15.1.2. National regulations

###### France

No ICPE	Installations classées	Désignation de la rubrique	Code Régime	Rayon
Na	Not Applicable		na	na

###### Germany

Regulatory reference : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

###### Netherlands

Waterbezwaarlijkheid  
B (4) - Weinig schadelijk voor in het water levende organismen

SZW-lijst van kankerverwekkende stoffen:  
None of the components are listed

SZW-lijst van mutagene stoffen:  
None of the components are listed

SZW-lijst van reprotoxische stoffen – Borstvoeding:  
None of the components are listed

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid:  
None of the components are listed

SZW-lijst van reprotoxische stoffen – Ontwikkeling:  
None of the components are listed

## Denmark

Recommendations Danish Regulation:

Young people below the age of 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct contact with the product

## 15.2. Chemical safety assessment

Not applicable

## 16. OTHER INFORMATION

Abbreviations and acronyms:

ABM = Algemene beoordelingsmethodiek

ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC

IATA = International Air Transport Association

IMDG = International Maritime Dangerous Goods Code

LEL = Lower Explosive Limit/Lower Explosion Limit

UEL = Upper Explosion Limit/Upper Explosive Limit

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

BTT = Breakthrough time (maximum wearing time)

DMEL = Derived Minimal Effect level

DNEL = Derived No Effect Level

EC50 = Median Effective Concentration

EL50 = Median effective level

ErC50 = EC50 in terms of reduction of growth rate

ErL50 = EL50 in terms of reduction of growth rate

EWC = European waste catalogue

LC50 = Median lethal concentration

LD50 = Median lethal dose

LL50 = Median lethal level

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NA = Not applicable  
NOEC = No observed effect concentration  
NOEL: no-observed-effect level  
NOELR = No observed effect loading rate  
NOAEC = No observed adverse effect concentration  
NOAEL = No observed adverse effect level  
N.O.S. = Not Otherwise Specified  
OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs)  
PNEC = Predicted No Effect Concentration  
Quantitative structure-activity relationship (QSAR)  
STOT = Specific Target Organ Toxicity  
TWA = time weighted average  
VOC = Volatile organic compounds  
WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)

Sources of key data used to compile the datasheet:  
ECHA (European Chemicals Agency). Supplier information.

Training advice:  
Training staff on good practice. Manipulations are to be done only by qualified and authorised persons.

Other information:  
Classification - Assessment method: CLP Calculation method (Article 9).  
Full text of H- and EUH-statements:  
Restricted to professional users  
Carc. 1B            Carcinogenicity (inhalation) Category 1B  
H350i            May cause cancer by inhalation.

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878  
Classification according to Regulation (EC) No. 1272/2008 [CLP] Labelling according to Regulation (EC) No. 1272/2008 [CLP]