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

# 1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

#### 1.1 Tradename : Refrex® 1400

This product is defined as an article under REACH and does not require a Safety Data Sheet under Article 31 of Regulation (EC) No. 1907/2006. Since an SDS is not required, this document does not contain all of the information that is required for substance and mixture SDSs under REACH.

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

Cermic fibre cloth

# **Identification of the company**

INSULCON B.V. INSULCON N.V. INSULCON GMBH

Zilverhoek 4 Belgium Germany

4651 SP STEENBERGEN, The Netherlands Tel.: + 32 (0)3 711.02.78 Tel.: + 49 (0) 2131-408548-0

Tel.: +31 (0)167-565750 Fax: +31 (0)167-566263

# 2. HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

# CLP Regulation (EC) No 1272/2008 Classification of the substance/ mixture

Not applicable

# Dangerous substances(67/548/EEC)/preparations(1999/45/EC) directive

This product is considered an article and is exempt from hazard classification.

# 2.2. Label elements

**CLP Direction (EG) nr. 1272/2008** 

Not applicable

# Dangerous substances(67/548/EEC)/preparations(1999/45/EC) directive

Not applicable

# 2.3. Other hazards

None known.

# 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS Nbr	<b>EU Inventory</b>	% by Wt	<u>Classification</u>
Aluminoborosilicate	12788-79-3	-	>95	Substance not classified
				As hazardous
Organic sizing	<b>Trade Secret</b>		<5	Substance not classified
				As hazardous

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\*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

# 4. FIRST-AID MEASURES

# 4.1. Description of first aid measures

#### Inhalation

Move person to fresh air. If concerned, seek medical advice.

#### Skin contact

Wash with soap and water. If signs/symptoms develop, get medical attention.

#### **Eye contact**

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

# If swallowed

Rinse mouth. If you feel unwell, get medical attention.

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

See Section 11.1 Information on toxicological effects

# **4.3.** Indication of any immediate medical attention and special treatment required Not applicable

# **5. FIRE-FIGHTING MEASURES**

#### 5.1. Extinguishing media

Non-combustible. Choose material suitable for surrounding fire.

# 5.2. Special hazards arising from the substance or mixture

None inherent in this product.

# 5.3. Advice for fire-fighters

No special protective actions for fire-fighters are anticipated.

# **6. ACCIDENTAL RELEASE MEASURES**

**6.1.** Personal precautions, protective equipment and emergency procedures No special actions required.

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#### 6.2. Environmental precautions

No special actions required.

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

No special actions required.

# 7. HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

Avoid skin contact with hot material. Avoid breathing of dust created by cutting, sanding, grinding or machining. This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical under normal use conditions.

# 7.2. Conditions for safe storage including any incompatibilities

Not applicable

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1 Control parameters

#### **Occupational exposure limits**

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient C.A.S. No. Agency Limit type Additional Comments

Organic Sizing Trade Secret AIHA TWA(as aerosol):10 mg/m<sup>3</sup>

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TWA : Time-Weighted-Average STEL : Short Term Exposure Limit

CEIL : Ceiling

#### 8.2. Exposure controls

# 8.2.1. Engineering controls

Not applicable.

# 8.2.2. Personal protective equipment (PPE)

# Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment.

The following eye/face

protection(s) are recommended:

Safety Glasses with side shields

# Skin/hand protection

No chemical protective gloves are required.

# **Respiratory protection**

None required.

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# Thermal hazards

Wear heat insulating gloves when handling hot material to prevent thermal burns.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# 9.1. Information on basic physical and chemical properties

Physical state Solid. Colour White

Odour threshold Not applicable. Not applicable. На Boiling point/boiling range Not applicable. Melting point >=1,800°C Flammability (solid, gas) Not classified Flammable Limits(LEL) Not applicable. Flammable Limits(UEL) Not applicable. Vapour pressure Not applicable. Vapor Density Not Applicable 2.7 - 3.05 g/cm<sup>3</sup> Density

Specific Gravity 2.70 - 3.05 [Ref Std:WATER=1]

Solubility In Water 0.5 - 3.5 % [Details:CONDITIONS: 0.5-3.5% BY WEIGHT]

Solubility- non-water
Partition coefficient: n-octanol/water
Autoignition temperature
Decomposition temperature
Viscosity
Not applicable.
Not applicable.
Not Applicable

Molecular weight No Data Available

Volatile organic compounds (VOC)

No data available.

VOC Less H2O & Exempt Solvents

No Data Available

# 10. STABILITY AND REACTIVITY

# 10.1 Reactivity

This material is considered to be non reactive under normal use conditions

# 10.2 Chemical stability

Stable.

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# 10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

#### 10.4 Conditions to avoid

None known.

# 10.5 Incompatible materials

None known.

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# 10.6 Hazardous decomposition products

<u>Substance</u> <u>Condition</u>

Carbon monoxide. At elevated temperatures. Irritant vapours or gases. At elevated temperatures.

Under recommended usage conditions, hazardous decomposition products are not expected. Hazardous decomposition products may occur as a result of oxidation, heating, or reaction with another material.

# 11. TOXICOLOGICAL INFORMATION

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 11 are based on UN GHS calculation rules and classifications derived from Insulcon assessments.

# 11.1 Information on Toxicological effects

**Signs and Symptoms of Exposure** 

Based on test data and/or information on the components, this material may produce the following health effects:

#### **Inhalation**

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Vapours from heated material may cause irritation of the respiratory system: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, nose and throat pain. Dust from cutting, grinding, sanding or machining may cause irritation of the respiratory system: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, nose and throat pain.

# Skin contact

Mechanical skin irritation: Signs/symptoms may include abrasion, redness, pain, and itching.

#### Eye contact

Mechanical eye irritation: Signs/symptoms may include pain, redness, tearing and corneal abrasion.

# Ingestion

Physical Blockage: Signs/symptoms may include cramping, abdominal pain, and constipation.

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# Additional health effects:

Due to their large size (7-15 microns in diameter), Refrex® does not meet the definition of respirable as defined by WHO convention and ECHA. Because Refrex® fibers are considered non-respirable, they are not expected to pose a cancer risk.

REFREX® 1400

# Information on the following relevant hazard classes

This product, when used under reasonable conditions and in accordance with the Insulcon directions for use, should not present a health hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use may affect the performance of the product and may present potential health and safety hazards. Due to their large size (7-15 microns in diameter), Refrex® does not meet the definition of respirable as defined by WHO convention and ECHA. Because Refrex® fibers are considered non-respirable, they are not expected to pose a cancer risk.

# **Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification

# **Acute Toxicity**

induction to Autority					
Name	Route	Species	Value		
Overall product	Ingestion		No data available; calculated		
			ATE >5,000 mg/kg		
Organic sizing	Dermal	Rabbit	LD50>20,000 mg/kg		
Organic sizing	Ingestion	Rat	LD50 32,770 mg/kg		

ATE = acute toxicity estimate

# Skin Corrosion/Irritation

Name	Species	Value
Overall product	In vitro data	No significant irritation
Aluminoborossilkicate fibers	In vitro data	No significant irritation
Organic sizing	Rabbit	Minimal irritation

# **Serious Eye Damage/Irritation**

Name	Species	Value
Organic sizing	Rabbit	Mild irritant

#### **Skin Sensitisation**

Name	Species	Value				
Organic sizing	Guinea pig	Not classified				

# **Respiratory sensitization**

Either no data is currently available for the component(s) or the available data is insufficient for a classification.

# **Germ Cell Mutagenicity**

Name	Species	Value
Organic sizing	In Vitro	Not mutagenic
Organic sizing	In vivo	Not mutagenic

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Carcinogenicity

Name	Route	Species	Value
Organic sizing	Ingestion	Rat	Not carcinogenic

# **Reproductive Toxicity Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test result	Exposure Duration
Organic sizing	Ingestion	Not toxic to female reproduction	Rat	NOAEL 1,125 mg/kg/day	during gestation
Organic sizing	Ingestion	Not toxic to male reproduction	Rat	NOAEL 5699 +/- 1341 mg/kg/day	5 days
Organic sizing	Not specified	Some positive reproductive/develop mental data exist, but the data are not sufficient for classification		NOEL N/A	
Organic sizing	Ingestion		Mouse	NOAEL 562 mg/animal/day	during gestation

# Target Organ(s)

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Specific Target Organ Toxicity - single exposure

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Name	Route	Target	Value	Species	Test result	Exposure		
		Organ(s)				Duration		
Organic sizing	Inhalation	respiratory	Not	Rat	NOAEL 1.008	2 weeks		
		irritation	classified		mg/l			

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Organic Sizing	Inhalation	respiratory system	Not classified	Rat	NOAEL 1.008 mg/l	2 weeks
Organic Sizing	Ingestion	kidney and/or bladder/ heart endocrine system/ hematopoietic system /liver/ nervous system	Not classified	Rat	NOAEL 5,640 mg/kg/day	13 weeks

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# **Aspiration hazard**

For the component/components, either no data is currently available or the data is not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

# 12. ECOLOGICAL INFORMATION

# **Ecotoxicological information**

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

#### **Chemical fate information**

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

# 13. DISPOSAL CONSIDERATIONS

#### 13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations. Dispose of waste product in a permitted industrial waste facility.

#### **EPA Hazardous Waste Number (RCRA):**

Not regulated

# 14. TRANSPORT INFORMATION

Not hazardous for transportation

# 15. REGULATORY INFORMATION

#### 15.1. US Federal Regulations

Contact Insulcon for more information.

#### **EPCRA 311/312 Hazard Classifications:**

#### **Physical Hazards**

Not applicable

# **Health Hazards**

Not applicable

# 15.2. State Regulations

Contact Insulcon for more information.

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#### 15.3. Chemical Inventories

This product is an article as defined by TSCA regulations, and is exempt from TSCA Inventory listing requirements. Contact Insulcon for more information.

# 15.4. International Regulations

Contact Insulcon for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### **16. OTHER INFORMATION**

# **NFPA Hazard Classification**

Health: 0 Flammability: 0 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

#### **HMIS Hazard Classification**

Health: 0 Flammability: 0 Physical Hazard: 0 Personal Protection: X - See PPE section.

Hazardous Material Identification System (HMIS® IV) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® IV ratings are to be used with a fully implemented HMIS® IV program. HMIS® is a registered mark of the American Coatings Association (ACA).

#### **DISCLAIMER:**

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