

## SAFETY DATA SHEET

(Following Regulations (EC) No 1907/2006 & (EC) No 1272/2008)

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### 1 - Identification of product

#### 1.1 - Identification of Product

**Tradenames:** BTU-FlexiPipe VAC,

#### 1.2 - Use of Product

#### Relevant identified uses of the substance or mixture:

Insulating material

Sector of use [SU]: SU 3 - Industrial uses: Uses of substances as such or in preparations at industrial sites

#### Uses advised against:

No information available at present

#### 1.3 - Identification of Company

##### Distributor:

THERMAL CERAMICS  
LIMITED  
Tebay Road, Bromborough,  
Wirral, CH62 3PH,  
UK

Tel. : +44 (0) 151 334 4030  
Fax : +44 (0) 151 334 1684

##### Manufacturer:

Porextherm Dämmstoffe GmbH,  
Heisinger Str. 8/10,  
D87437 Kempten  
Germany

Telephone: +49 (0)831-575360  
Fax: +49 (0)8310575363  
www.porextherm.com,

info@porextherm.com

#### Website

www.morganthermalceramics.com  
sds.tc@morganplc.com

#### 1.4 - Emergency information

Tel: + 44 (0) 7931 963 973  
Language: English  
Opening hours: Only available during office hours

### 2 - Hazard Identification

#### 2.1 - Classification of the substance/ mixture

##### 2.1.1 CLASSIFICATION ACCORDING TO REGULATION (EC) NO 1272/2008

Not classified as hazardous according to Classification, Labelling and Packaging regulations (CLP) 1272/2008 EEC

#### 2.2 - Labelling Elements

No labelling required as product is considered an article under REACH and CLP regulations.

#### 2.3 - Other hazards which do not result in classification

The product does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006

The product does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006

### 3 - Composition / Information On Ingredients

Article based on amorphous fumed silica, opacifier and glass fibres

The product contains no hazardous ingredients according to Directive 67/548/EEC exceeding the relevant concentration limits

None of the components are radioactive under the terms of European Directive Euratom 96/29.

#### 4 - First-Aid measures

##### Skin

In case of skin irritation rinse affected areas with water and wash gently. Do not rub or scratch exposed skin.

##### Eyes

In case of eye contact flush abundantly with water; have eye bath available. Do not rub eyes. Seek medical attention if irritation persists.

##### Nose and Throat

Typically no exposure pathway.

If symptoms persist, seek medical advice.

#### 4.2 - Most Important symptoms and effects, both acute and delayed

No symptoms or effects expected either acute or delayed

#### 4.3 - Indication of any immediate medical attention and special treatment required

No special treatment required, if exposure occurs wash exposed areas to avoid irritation.

#### 5 - Fire-fighting measures

##### 5.1 - Extinguishing media

Use extinguishing agent suitable for surrounding combustible materials.

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

Non combustible products. However, virgin product encapsulation may burn and produce gases and/or fumes.

##### 5.3 - Advice for firefighters

Packaging and surrounding materials may be combustible.

#### 6 - Accidental Release Measures

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

Avoid build up of dust

##### 6.2 - Environmental precautions

Normally not necessary

##### 6.3 - Methods and materials for containment and clean up

Pick up mechanically and dispose of according to Section 13

##### 6.4 - Reference to other sections

For further information, please refer to sections 7 and 8

#### 7 - Handling and storage

##### 7.1 - Precautions for safe handling

Avoid build up of dust

Eating, drinking, smoking as well as food storage is prohibited in the work-room.

General hygiene measures for handling of chemicals are applicable

Wash hands before breaks and at end of work

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

##### 7.2 - Conditions for safe storage

Store in original packaging in a dry area.

Always use sealed and clearly labelled containers.

Avoid damaging containers.

Reduce dust emission during unpacking.

##### 7.3 - Specific end use

## 8 - Risk Management Measures / Exposures Controls / Personal Protection

### 8.1 - Control parameters

Industrial hygiene standards and occupational exposure limits vary between countries and local jurisdictions. Check which exposure levels apply to your facility and comply with local regulations. If no regulatory dust or other standards apply, a qualified industrial hygienist can assist with a specific workplace evaluation including recommendations for respiratory protection. Examples of national OELs (November 2014) are given in the table below.

COUNTRY	Total Dust (mg/m <sup>3</sup> )	Resp Dust (mg/m <sup>3</sup> )	Amorphous Silica (total) (mg/m <sup>3</sup> )	Amorphous Silica (resp) (mg/m <sup>3</sup> )	Source
Austria	10	6	-	-	Grenzwerteverordnung
Belgium	10	3	10	-	Valeurs limites d'exposition professionnelle – VLEP/ Grenswaarden voor beroepsmatige blootstelling – GWBB
Denmark	10	5	-	2	Grænseværdier for stoffer og materialer
Finland	No limit	No limit	-	-	Finnish Ministry of Social Affairs and Health
France	10	5	-	-	Institut National de Recherche et de Sécurité
Germany	10	1.25	4	-	TRGS 900
Hungary	No limit	No limit	-	-	<i>EüM-SZCSM rendelet</i>
Ireland	10	4	-	2.4	HAS – Ireland
Italy	10	3	-	-	Uses EU values
Luxembourg	10	6	-	-	Agents Chimiques, Cancérigènes Ou Mutagènes Au Travail
Netherlands	10	5	-	-	SER
Norway	10	5	-	1.5	Veiledning om administrative normer for forurensning i arbeidsatmosfære
Poland	No limit	No limit	-	-	Dziennik Ustaw 2010
Spain	10	3	-	-	INSHT
Sweden	10	5	-	-	AFS 2005:17
Switzerland	10	6	-	-	SUVA - Valeurs limites d'exposition aux postes de travail
UK	10	4	6	2.4	EH40/2005

#### Information on monitoring procedures

United Kingdom

MDHS 14/4 - "General methods for sampling and gravimetric analysis of respirable, thoracic and inhalable aerosols"

NIOSH

NIOSH 0500 "Particulates not otherwise regulated, total"

NIOSH 0600 "Particulates not otherwise regulated, respirable"

### 8.2 - Exposure controls

#### 8.2.1 APPROPRIATE ENGINEERING CONTROLS

Review your applications in order to identify potential sources of dust exposure.

Local exhaust ventilation, which collects dust at source, can be used. For example down draft tables, emission controlling tools and materials handling equipment.

Keep the workplace clean. Use a vacuum cleaner. Avoid brushing and compressed air.

If necessary, consult an industrial hygienist to design workplace controls and practices.

The use of products specially tailored to your application(s) will help to control dust. Some products can be delivered ready for use to avoid further cutting or machining. Some could be pre-treated or packaged to minimise or avoid dust release during handling.

Consult your supplier for further details

#### 8.2.2 - Personal Protective Equipment

Eye/face protection:

Normally not necessary

Skin protection:

Normally not necessary

If applicable leather gloves and protective working garments (e.g. safety shoes, long-sleeved protective working garments)

Respiratory protection:

Normally not necessary

If OEL's are exceeded, if applicable, filter P2 (EN143), observe wearing time limitations for respiratory protection equipment.

#### 8.2.3 - Environmental Exposure Controls

Refer to local, national or European applicable environmental standards for release to air water and soil.

For waste, refer to section13

## 9 - Physical and chemical properties

<b>Information on basic physical and chemical properties</b>	Not applicable
<b>State</b>	Grey or white (depending on opacifier) solid
<b>Colour</b>	Not applicable
<b>Odour</b>	None
<b>Odour threshold</b>	Not Applicable
<b>pH</b>	Not applicable
<b>Melting point/freezing point</b>	> 1200°C
<b>Initial boiling point and boiling point range</b>	Not applicable
<b>Flash point</b>	Not applicable
<b>Evaporation rate</b>	Not Applicable
<b>Flammability (solid, gas)</b>	Not applicable
<b>Upper/lower flammability or explosive limits</b>	Not applicable
<b>Vapour pressure</b>	Not applicable
<b>Vapour density</b>	Not Applicable
<b>Relative density</b>	150-600 kg/m <sup>3</sup>
<b>Solubility(ies)</b>	Not soluble in water
<b>Partition co-efficient: n-octanol/water</b>	Not applicable
<b>Auto-ignition temperature</b>	Not applicable
<b>Decomposition temperature</b>	Not Applicable
<b>Viscosity</b>	Not Applicable
<b>Other safety information</b>	Not applicable
<b>Particle Characteristics</b>	Not applicable
<b>Explosive properties</b>	Not applicable
<b>Oxidising properties</b>	Not applicable

## 10 - Stability and Reactivity

### 10.1 - Reactivity

The product is stable

### 10.2 - Chemical Stability

Stable under normal temperature conditions.

### 10.3 - Possibility of Hazardous Reactions

None

### 10.4 - Conditions to Avoid

Please refer to handling and storage advice in Section 7

### 10.5 - Incompatible Materials

None

### 10.6 - Hazardous decomposition products

Products with encapsulation (PE foil, glass cloth), will, on initial heating above 150°C, release a limited quantity of carbon dioxide, carbon monoxide and traces of other organic compounds. During this initial heating any organic components in the encapsulation will be burned off and subsequent heating will not release any hazardous decomposition materials.

## 11 - Toxicological information

### Toxicokinetics, metabolism and distribution

Article has not been tested using toxicological tests

### 11.1 - Information on hazard classes as defined in Regulation (EC) No 1272/2008

## 12 - Ecological information

### 12.1 - Toxicity

These products are inert materials that remain stable overtime.  
No adverse effects of this material on the environment are anticipated.

### 12.2 - Persistence and degradability

Not established

### 12.3 - Bioaccumulative potential

Not established

### 12.4 - Mobility in soil

No information available

### 12.5 - Results of PBT and vPvB assessment

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

This mixture contains no substance considered to be very persistent and very bioaccumulative (vPvB).

### 12.6 - Endocrine Disrupting Properties

No additional information available

### 12.7 - Other adverse effects

## 13 - Disposal Considerations

### 13.1 - Disposal Considerations

## 14 - Transport information

### 14.1 - Transport information

## **15 - Regulatory information**

15.1 - Regulatory information

## **16 - Other Information**

16.1 - ADDITIONAL INFORMATION AND PRECAUTIONS TO BE CONSIDERED UPON REMOVAL OF AFTER SERVICE MATERIAL

16.2 - uses advised against

16.3 - NOTE

16.4 - Further Information

16.5 - Technical Datasheets

16.6 - Revision Summary

16.7 - NOTICE