

## SAFETY DATA SHEET

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

SDS Number: 703      Date of first issue: 29 June 2021      Date of last revision: 21 February 2022

### 1 - Identification of product

#### 1.1 - Identification of Product

**Tradenames:** WDS Flexible Design, WDS Ultra Board,

#### 1.2 - Use of Product

Application as thermal insulation. (Please refer to specific technical data sheet for more information)

#### 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

Not applicable

#### 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

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**

Where abnormally high dust concentrations occur, provide the workers with appropriate protective equipment as detailed in section 8. Restore the situation to normal as quickly as possible.

### **6.2 - Environmental precautions**

Normally not necessary

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

Pick up large pieces and use a vacuum cleaner.  
If brushes are used, ensure that the area is wetted down first.  
Do not use compressed air for clean up.  
Do not allow to become windblown.

### **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**

Handling can be a source of dust emission and therefore the processes should be designed to limit the amount of handling. Whenever possible, handling should be carried out under controlled conditions (i.e., using dust exhaust system).  
Regular good housekeeping will minimise secondary dust dispersal.

### **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**

The main application of these products is as thermal insulation. Please refer to your local Morgan Thermal Ceramics' supplier.

## 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<br>(mg/m <sup>3</sup> ) | Resp Dust<br>(mg/m <sup>3</sup> ) | Amorphous Silica<br>(total)<br>(mg/m <sup>3</sup> ) | Amorphous Silica<br>(resp)<br>(mg/m <sup>3</sup> ) | Aluminium<br>Oxide<br>(total)<br>(mg/m <sup>3</sup> ) | Silicon<br>Carbide<br>(total)<br>(mg/m <sup>3</sup> ) | Source   |
|-------------|------------------------------------|-----------------------------------|---|--|---|---|--|
| India       | 10                                 | -                                 | -   | -  | 5   |   | Directorate General Factory Advice Service & Labour Industries (DFGASLI)             |
| China       | 8                                  | -                                 | 1   | 0.7  |   |   | GBZ 2.1-2019   |
| Japan       | 8                                  | 4                                 | 2   | 1  | 2   | 4   | The Japan Society for Occupational Health (JSOH)                                     |
| South Korea | 10                                 | -                                 | 10  | 0.1  | 10  | 10  | K-OSHA Value   |
| UAE         | 10                                 | 2                                 | 10  | 3  | -   | 10  | Abu Dhabi Occupational Safety and Health System Framework (OSHAD-SF) v 3.0 July 2016 |
| Australia   | 10                                 | 2                                 | 10  | 2  | 10  | 10  | Workplace Exposure Standards for Airborne Contaminants, Dec 2019                     |

#### 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 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 material is stable.

### 10.2 - Chemical Stability

The product is inorganic, stable and inert

### 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

#### 11.1.1 BASIC TOXICOKINETICS

Exposure is not expected during normal use due to nature of the products, exposure during removal may be possible, predominantly by inhalation or ingestion, available toxicological information is as follows:

#### 11.1.2 HUMAN TOXICOLOGICAL DATA

No clear evidence of lung problems is attributable to exposure to alumina particles in spite of widespread and, in some cases, substantial exposure in various sectors of industry.

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

##### ACUTE TOXICITY

Lethal dose 50 % (LD50) >5000 mg/kg Rat OECD 401 (acute oral toxicity)

Lethal concentration 50% (LC50): 7.6 mg/l/1h Rat OECD 403 (acute inhalation toxicity)

##### EXPERIMENTAL STUDIES

In animal studies, no fibrosis or other lung effects was observed following repeated inhalation exposure levels of 20 mg/m<sup>3</sup> and above. Although some absorption may occur from inhaled particles, there is no evidence that this is sufficient to cause systemic effects and any link with Alzheimer's disease is considered to be remote.

## 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

Waste from these materials may be generally disposed off at a landfill, which has been licensed for this purpose. Please refer to the European list (Decision N° 2000/532/CE as modified) to identify your appropriate waste number, and ensure national and/or regional regulations are complied with.

Unless wetted, such a waste is normally dusty and so should be properly sealed in containers for disposal. At some authorised disposal sites, dusty waste may be treated differently in order to ensure they are dealt with promptly to avoid them being windblown. Check for any national and/or regional regulations, which may apply.

## 14 - Transport information

### 14.1 - Transport information

#### 14.1. UN number

Not Applicable

#### 14.2. UN proper shipping name

Not Applicable

#### 14.3. Transport hazard class(es)

Not Applicable

#### 14.4. Packing group

Not Applicable

#### 14.5. Environmental hazards

Not Applicable

#### 14.6. Special precautions for user

Not Applicable

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not Applicable

## 15 - Regulatory information

### 15.1 - Regulatory information

This SDS has been prepared in accordance with WHO GHS rev. 6 requirements. Where applicable, local regulations have been followed.

## 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

This Safety Data Sheet was originally produced in English and has subsequently been translated in to other languages; whilst every effort has been made to make this an accurate translation, please be aware that technical terms do not always translate correctly. The English version should always be considered as the reference version.

### 16.4 - Further Information

#### FURTHER INFORMATION

Further information can be found on

<http://www.morganthermalceramics.com/>

<http://www.ecfia.eu/>

<http://www.safeworkaustralia.gov.au/sites/swa/about/publications/pages/workplace-exposure-standards-airborne-contaminants>

### 16.5 - Technical Datasheets

#### TECHNICAL DATA SHEETS

For more information on individual products please see the technical data sheet section at [www.morganthermalceramics.com](http://www.morganthermalceramics.com)

### 16.6 - Revision Summary

New Safety Data Sheet

### 16.7 - NOTICE