

**Safety data sheet** according to regulation  
(EC) No 1907/2006 and (EC) No 1272/2008



Trade name: **VARIOTHERM 500**  
Created on: 11.05.2009  
Issue date: 01.06.2015  
Version: **V2.2** Revision date : **20.09.2017**  
Replaces former version: V2.1 File name: Variotherm500\_en\_SDB.pdf

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**1. Designation of Material/Preparation/ and Company**

Trade-name: **Variotherm 500**

REACH registration number: none

Product Information: Thermal and acustic insulation of industrial equipment

**Manufacturer/Supplier :**

Techno-Physik Engineering GmbH

Schürmannstrasse 27- 31

D- 45136 Essen

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D- 45066 Essen

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**2. Composition: Information on Constituents**

Chemical Characterisation:

E-glass filament yarn drawn using the continuous filament process. Fibre diameter > 8 µm (not respirable).

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**3. Potential Hazards**

3.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 The substance is not classified according to the CLP regulation since it is an article.

3.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 Void

Hazard pictograms Void

Signal word Void

Hazard statements Void

3.3 Other hazards Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

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**4. First-aid Precautions**

4.1 after skin contact Wash the affected areas of skin with water and mild soap.  
Do not use any other cleansing agents.

4.2 after contact with the eyes Rinse the eyes with water

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### **5. Fire-fighting Precautions**

Use an extinguisher appropriate to the environment.

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### **6. Action on accidental Release into the Atmosphere**

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|--|--|
| 6.1 Personal precautions                           | See Point 8 - personal protective clothing for high dust concentrations  |
| 6.2. Environmental precautions and decontamination | Collect the product residues mechanically and fill into closed containers; Avoid creating dust. For collecting dust from the product use a vacuum cleaner or clean up with a damp cloth. |
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### **7. Handling and Storage**

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|---------------|--|
| 7.1. Handling | Avoid the creation and deposition of dust.           |
| 7.2. Storage  | Store in a dry place. Avoid damage to the packaging. |
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### **8. Exposure Control and personal protective Clothing and Equipment**

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|---|--|
| 8.1. Additional instructions for the construction of technical plants | Use technical protective measures (e.g. dust exhaustion) to keep dust to a minimum |
|---|--|

8.2. Constituents with limits affecting the workplace which require monitoring:

Components with limit values that require monitoring at the workplace: Not required

CAS No. Designation of material % Type Value Unit

Additional Occupational Exposure Limit Values for possible hazards during processing:

Observe general threshold limit for dust.

8.3 Personal Protective Clothing

#### Respiratory protection

Where the limits have been exceeded (see Point 8.2.) breathing apparatus with a particle filter corresponding to DIN 1381-P2 must be worn. It is recommended that these masks should be worn also at lower fibre concentrations.

Hand protection

The use of protective gloves is recommended.

Eye protection

A suitable pair of goggles must be worn when working overhead.

Body protection

Wear loose-fitting, long-sleeved, working clothes (disposable protective suits are recommended), headdress is recommended for overhead work.

Protective and hygiene precautions

Clean the workplace regularly. Staff must be required to work cleanly and to observe high standards of personal hygiene.

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### **9. Physical and chemical Properties**

9.1. Appearance: needle felt mats  
Colour : white  
Smell : odourless

9.2 Data of relevance for safety pH-value: 25°C (at 1000 g/l H<sub>2</sub>O), 8.5 - 11.5 nach DIN 5427  
Flash-point/flammability: non-flammable  
Ignition temperature: non-flammable in accordance with DIN 4102  
Thermal degradation :  
Density: 100 - 150 kg/m<sup>3</sup>  
Solubility in water: no

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### **10. Stability and Reactivity**

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### **11. Toxicological Data**

No acute toxicity when ingested with food, via the skin or with respiratory air; It is not carcinogenic, nor is it harmful to the health.

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### **12. Ecological Data**

The, mostly mineral, constituents of these products are inert and stable.

Hydrolytic Class III

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### **13. Instructions for Disposal**

These products contain no hazardous substances in the sense of the Dangerous Substances Directive and may be disposed of in an appropriate disposal site in keeping with official and local regulations. Residues and waste not subjected to thermal effects will be taken back by the manufacturer.

EEC-Code for waste glass: 101103  
Product is 100 % recycling capable.

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### **14. Shipping Data**

These products do not present any shipping hazard.

Protect products from damp during shipment. Avoid the creation of dust.

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### **15. Regulations**

These products are not subject to labelling regulations as they contain no hazardous substances in the sense of the Hazardous Substances Directive or the corresponding EU directives.

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European Regulations:

Directive 97/69/EC

German Regulations:

TRGS 521 - Fibre Dusts

TRGS 900 - Ambient Air Limits at the Workplace

TRGS 905 - Index of Substances which cause Cancer, genetic Changes and Hazards to Reproduction

Third Decree amending the Hazardous Substances Directive of 12.6.1998 (BG bl.1, S.1286)

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**16. Miscellaneous Data**

The data contained in this safety data sheet are based on the present state of knowledge and experience. The safety data sheet describes products from the viewpoint of safety requirements. The data have no significance as assurances regarding their properties.

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