

**Safety Data Sheet**  
Accordance to (EG) 1907/2006



**TRADE NAMES :** Multitherm 550  
**Reviewed on:** 01.03.2010 **Version :** 2.0  
**print date :** 27.10.2010

TP\_16\_V02\_EN

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

**Trade-name :** Multitherm 550

**REACH registration number:** none

**Product Information:** Thermal insulation of industrial equipment

**Manufacturer/Supplier :**

Techno-Physik Engineering GmbH

Schürmannstrasse 27- 31

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**2. Composition: Information on Constituents**

Chemical Characterisation:

Binder-free micro-glass-fibre sheet of biosoluble synthetic mineral fibres.

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**3. Potential Hazards**

Handling these products causes the release of fibre dust into the atmosphere. Due to the high bio-solubility of these fibres, no critical effects on the health need be expected so long as the recommended methods of use and the valid limits are adhered to. The effects of mechanical action on the mineral fibres contained in these products can cause irritation of the skin, eyes and upper respiratory tract.

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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**

6.1 Personal precautions

See Point 8 - personal protective clothing for high dust concentrations

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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.

## 7. Handling and Storage

7.1. Handling Avoid the creation and deposition of dust  
7.2. Storage Store in a dry place. Avoid damage to the packaging.

## 8. Exposure Control and personal protective Clothing and Equipment

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:

<u>Designation</u>	<u>Limit</u>	<u>Nature of limit</u>
Synthetic mineral fibres	500,000 fibres/m <sup>3</sup>	TRK
General dust limit	6 mg/m <sup>3</sup>	MAK

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.

up to 5,000,000 fibres/cbm = wear a half-mask with a particle filter corresponding to DIN 3181-P3  
up to 25,000,000 fibres/cbm = wear a full mask with a particle filter corresponding to DIN 3191-P3  
in excess of 25,000,000 fibres/cbm please refer to the manufacturer.

Skin protection The use of protective gloves is recommended.

Eye protection Use protective goggles with side protection. Do not wear contact lenses.

Body protection Wear loose-fitting clothes. Wear headgear when working overhead.

## 9. Physical and chemical Properties

9.1. Appearance: Form : rigid sheets  
Colour : white  
Smell : odourless

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9.2 Data of relevance for safety     pH-value:  
Flash-point/flammability: non-flammable  
Ignition temperature: non-flammable in accordance with DIN 4102  
Explosive limit: -  
Vapour pressure: -  
Density: 130 kg/m<sup>3</sup>  
Solubility in water: Glass - HGB 3 in accordance with DIN ISO 719

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## **10. Stability and Reactivity**

n.a.

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## **11. Toxicological Data**

Bio-stability tests of the synthetic mineral fibres employed produced the following results:

Half-life on inhalation                   < 3 days

Half-life after intratracheal instillation   < 13 days

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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.

European Regulations:

Directive 97/69/EC

German Regulations:

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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**

When working with these products, tools which cause minimum dust are to be employed. Preference must be given to prefabricated products. Packaging should only be removed immediately prior to application. 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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