

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



Trade name: Protherm 1000
Created on: 01.03.2010
Issue date: 01.06.2015
Version: V2.1
Replaces former version: V2.0
Revision date: 20.09.2017
File name: Protherm1000_en_SDB

1. Designation of Material/Preparation/ and Company

Trade-name: Porotherm 1000

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:

Mixture of SiO₂ (amorphous), IR opacifier and reinforcing fibres

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

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

4.3 After swallowing

Rinse out the oral cavity. Drink plenty of water. If nauseous,
seek medical assistance.

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4.4 After inhalation Ensure supply of fresh air

5. Fire-fighting Precautions

The product itself is not flammable. Select extinguishing action based on surrounding fire. Fire protection class A1

6. Action on accidental Release into the Atmosphere

6.1 Personal precautions Avoid formation of dust. If dust forms, use suction on the object

6.2. Environmental precautions and cleaning Pick up product residue mechanically and place in closed containers. Avoid formation of dust. Otherwise no special measures necessary

Cleaning procedures Collect mechanically and dispose of in accordance with the regulations.

7. Handling and Storage

7.1. Handling Avoid formation of dust and dust deposits.

7.2. Storage Protect from damp. Avoid damage to 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 extraction) in order to minimise dust formation

8.2. Associated substances with workplace-related limit values that require monitoring

<u>Designation</u>	<u>Limit value</u>	<u>Kind of limit value</u>
Silicic acid, morphic CAS no. 7631-86-9	4.0 mg/m ³	Max. workplace concentration
General dust limit	6 mg/m ³	Max. workplace concentration

8.3 Personal Protective Clothing

Respiratory equipment If the limit value is exceeded (see point 8.2), respiratory equipment with a particle filter DIN 1381-P2 must be worn. It is recommended that these masks are also used at lower fibre concentrations.

Hand protection The use of protective gloves is recommended.

Eye protection Suitable goggles must be worn during overhead work.

Body protection Ensure that the skin is cleaned after 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: Form : rigid plates
Colour : white / brown
Smell : odourless

9.2 Data of relevance for safety
pH value: 4.2 – 4.3 at 25°C (40g/l H₂O)
Flash point/flammability: not applicable
Ignition temperature: non-combustible acc. to DIN 4102
Melting point: 1,200°C
Density: 250 – 400 kg/m³

10. Stability and Reactivity

10.0 General No dangerous reactions known when properly stored and handled.
10.1 Conditions to be avoided
10.2 Substances to be avoided
10.3 Hazardous decomposition products

11. Toxicological Data

11.0 General To our current knowledge, no further data is known. When used properly, no damage is to be expected based on our current knowledge. The following toxicological data were obtained from tests on similar substances.

Half-life after inhalation Animal tests : At the highest technically achievable concentration, no mortality in animal tests

12. Ecological Data

12.1 Elimination data Biodegradation : Product does not cause oxygen depletion
12.2 Behaviour in environmental compatibility
12.3 Eco-toxic effects unknown
12.4 Behaviour in sewage plants No effects

13. Instructions for Disposal

These products contain no hazardous substances in the sense of the Hazardous 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 loads will be taken back by the manufacturer.

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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.

15. Regulations

There is no requirement to mark the products 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:

TRGS 900 – Limit values in the air at the workplace

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 does not imply any assurance of
