

# MATERIAL SAFETY DATA SHEET

DATE:

## Supplier:

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## 1 Identification

Product:	Millboard Non-Asbestos
Name:	Thermofen 1300

## 2 Information on ingredients

Product description:	Millboard material manufactured in wet process, paper machine
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### Ingredients:

Mineral wool  
Refractory materials mainly SiO<sub>2</sub>, CaO and small percentages of MgO, Fe<sub>2</sub>O<sub>3</sub>, and Al<sub>2</sub>O<sub>3</sub>.  
Organic Binders

## 3 Hazards identification

In its form as supplied, the product has no known hazards.

The ingredients are normally firmly bound within this product. When handling the product in an inappropriate way or not in accordance with the intended use, (see 7.1), small quantities of respirable fibrous dust (WHO definition) may be released from the product. The mineral wool contained within this product is classified under the directive 67/89/EC as carcinogenic-category 3. Short term, reversible effects to skin, eyes and throat may result from contact with coarser fibre particles.

#### 4 First-aid measures

General:	Intensive machining of the product may release coarse and fine dust.
On aspiration:	n.a.
On skin irritation:	Wash with water and soap. If irritation persists, seek medical advice.
On contact with eyes:	Treat particles in the same way as other foreign bodies, rinse thoroughly with water and seek medical advice.
On swallowing:	n.a.
Information for the physician:	n.a.

#### 5 Fire-fighting measures

Suitable extinguishing media:	Incombustible product
Extinguishing media which must not be used for safety reasons:	n.a.
Combustion products:	n.a.
Special protective equipment for fire-fighters:	n.a.
Additional information:	n.a.

#### 6 Accidental release measures

Humans:	see point 8.
Environment:	n.a.
Cleaning:	n.a.

#### 7 Handling and storage

7.1 Safe handling	
General:	TRGS 521, chapter 3 Keep work areas clean.
Good working practice:	Cutting, waterjet cutting
The following working practice may generate higher levels of dust and should be avoided unless additional technical measures are installed:	Grinding, milling, turning, drilling, sawing, sanding.

Technical measures:	In case dust is released, extract ventilation with micro particle filter. (see point 3)
Fire and explosion protection:	n.a.
For cleaning:	Use vacuum cleaner equipped with micro particle filter.
7.2 Storage	
Ideal storage condition:	25 °C, 50-60 % rel. humidity, no direct sunlight.

## 8 Exposure controls/personal protection

General dust limit:	8 mg / m <sup>3</sup>
TRK for respirable mineral fibre dust:	250'000 Fibres/m <sup>3</sup> (TRGS 900) (see point 3)
6.3 Personal protection	
Under good working practices (see 7.1):	No specific personal protection is needed.
When higher levels of dust may be generated:	
Respiratory protection:	With dust development and in confined spaces, use disposable facemasks complying with EN 149: FFP1 or FFP2.
Hand protection:	Wear suitable gloves.
Eye protection:	With heavy dust development, wear safety goggles.
Skin protection:	Wear loose fitting, long-sleeved, long-legged, closed work clothes (e.g. overalls). Change clothes and wash on completing work.
Hygiene measures:	On completion of work rinse off dust. Never use compressed air.

## 9 Physical and chemical properties

Appearance:	Solid material in sheet form.
Odour:	no odour
pH value:	n.a.
Boiling point:	n.a.
Melting point:	n.a.
Flash point:	n.a.
Decomposition:	n.a.

Flammability:	Incombustible product
Explosive properties:	n.e.
Vapour pressure:	n.e.
Density	0.9-1.0 g/cm <sup>3</sup>
Solubility in water:	not soluble

## 10 Stability and reactivity

Conditions to be avoided:	Use the materials only within the limits specified in the technical data sheets.
Degradation products:	At high temperatures, some fumes from combustion of the small quantity of organic components. (see also point 5)

## 11 Toxicological information

see point 3
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## 12 Ecological information

Stable product with no known adverse environmental effects.
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## 13 Disposal considerations

13.1 Product	Local regulations may apply.
13.2 Packing material:	Local regulations may apply.

## 14 Transport information

No special precautions required.
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## 15 Regulatory information

National regulations:	Appendix V, No. 7 of the Ordinance on Dangerous Chemicals (Gefahrstoffverordnung)
	Announcement to authorities is required by law.
Labelling	The product is not classified and hence needs no labelling.

## 16 Further information

The information contained herein is based upon current data considered to be accurate. However, no warranty is expressed or implied regarding the accuracy of these data, the results to be obtained from the use thereof, or that any such use will not infringe upon any patent. This information is furnished as a guide only and upon the conditions that the person receiving it shall make tests to determine the accuracy and suitability for his or her own purpose.	
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