



Panel Agency Limited

Established 1971

NORIT
A Product of **Lindner**

TOTAL BUILDING PRODUCT SOLUTIONS

Safety Data Sheet

Date 05/10/2009

Trade name:

Panelmox® Gypsum Reinforced Fibre Board

1. IDENTIFICATION OF THE CHEMICAL AND OF THE MANUFACTURER, IMPORTER OR OTHER UNDERTAKING

1.1. Identification of the substance or preparation

Trade name

Panelmox® Gypsum Bonded Fibre Board

1.2. Identification of the Manufacturer, importer or other undertaking

1.2.1. Manufacturer

Lindner GFT GmbH

1.2.2. Contact Information

Lindner GFT GmbH

Street address

Lange Lange 5

ZIP-code and post office

D-97337 Dettelbach

P.O.B.

Germany

Telephone

+49 (0) 93 24 / 309-50 00

Telefax

+49 (0) 93 24 / 3 09 53 00

1.2.3. Emergency telephone (24hour)

+49 (0) 8723 20 2512 (Martin Roiner)

2. COMPOSITION AND INFORMATION ON INGREDIENTS

2.2. Hazardous ingredients

None

2.2.1. CAS-number or other code

-

2.2.2. Name of the ingredient

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2.2.3. Concentration

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2.2.4. Warning symbol, R-phrases and other data on the ingredient

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2.2.5. Chemical name of ingredient (CAS-number: name)

Gypsum or Calcium Sulphate ($\text{CaSO}_4 \cdot 2 \text{H}_2\text{O}$)

with a small fraction of cellulose fibres ($\text{C}_6\text{H}_{10}\text{O}_5$)_n

2.2.6. Other information

Description of the Composition: Solid, homogenous board, gypsum about 94%, cellulose about 6%.

In the RH 20⁰/65% humidity of the board is about 0.8%

3. POTENTIAL HAZARDS

According to the information available, this material and content is not a material to be classified in accordance with the existing chemical legislation.

4. FIRST AID MEASURES

4.1. Special instructions

No special instructions.

4.2. Inhalation

Move to fresh air from the dusty area.

4.3. Skin contact

Wash the skin with plentiful water and soap. If the skin gets inflamed, seek medical advice.

4.4. Eye contact

Rinse the eyes with clean, lukewarm water for about 10 minutes. If the irritation continues, seek medical advice.

4.5. Ingestion

The product is non-toxic and non-corrosive. When symptoms appear, seek medical advice.

5. FIRE-FIGHTING MEASURES

- 5.1. Suitable extinguishing media**
N/A the board is classified as non combustible to DIN EN 13501-1 "A1"
- 5.3. Special exposure hazards in case of fire**
Toxic fumes are not produced, but breathing apparatus may be required to combat smoke.
- 5.4. Special protective equipment for fire-fighters**
Standard procedure for fires.
- 5.5. Other instructions**
Gypsum bonded particle board is used as fire protection and it can be placed on burning material to prevent fire from advancing.

6. ACCIDENTAL RELEASE MEASURES

- 6.1. Personal precautions**
Use proper clothing and protective gloves. Use adequate respiration protection in case dust extraction machinery is inadequate.
- 6.3. Methods of cleaning up**
Gypsum dust is removed with vacuum cleaner or broom and remaining dust is wiped with a moist cloth.

7. HANDLING AND STORAGE

- 7.1. Handling**
Board stacks can be moved with fork lifts. A single board should be moved in vertical position, preferably with specialised board lifters
- 7.2. Storage**
Boards should be stored on flat surface and protected from moisture.

8. PREVENTATIVE MEASURES AND PERSONAL EQUIPMENT

- 8.1. Occupational exposure controls**
Adequate air conditioning in enclosed spaces when cutting, installing and removing boards must be protected. After installation there is no need for further protective procedures.
- 8.2. Exposure limit values**
- 8.2.1. HTP-values**
5 mg/m³ maximum exposure limit
- 8.3. Personal protection**
During the cutting suitable respiration protection is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1. General information (physical state, colour and odour)**
Solid, from beige to grey in colour, no layers, odourfree.
- 9.2. pH**
Not applicable for normal product, in an aqueous slurry solution 6-9
- 9.3. Other information**
- 9.3.1. Boiling point/boiling range**
Not measurable.
- 9.4. Flash point**
Not measurable.
- 9.5. Flammability (solid, gas)**
Non-combustible or almost non-combustible.
- 9.8. Explosive properties**
Not measurable.
- a) Lower explosive limit**
Not measurable.
- b) Upper explosive limit**
Not measurable.
- 9.10. Vapour pressure**
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- 9.11. Relative density**
1200-1500 kg/m³

9.12.	Solubility a) Water solubility 2 g/l CaSO ₄ 2H ₂ O b) Fat solubility (solvent oil, to be specified) No information available.
9.13.	Partition coefficient: n-octanol/water No information available.
9.14.	Viscosity Not measurable.
9.15.	Other information
9.3.2.	Melting point: Loss of 1.5 mol crystal water in 130 °C and the rest of crystal water in 180 °C. Disperses CaSO ₄ -> CaO + SO ₃ in 900-1200 °C
10. STABILITY AND REACTIVITY	
10.1.	Conditions to avoid Avoid over 85-90 % continuous relative humidity and over 45 °C continuous temperature.
10.2.	Materials to avoid Strong oxidizing substances.
10.3.	Hazardous decomposition products Product does not disperse in normal conditions. Thermal disperse over 1450 °C leads to forming of sulfuroxides.
11. TOXICOLOGICAL INFORMATION	
11.0.	General Exposure during cutting, breaking or removing of boards through eyes and respiratory passages.
11.1.	Acute toxicity Boards are not proven toxic.
11.2.	Irritation and Corrosiveness Gypsum dust may irritate eyes and respiration organs temporarily.
11.3.	Sensitisation -
11.5.	Empirical data on effects on humans Health damages are not known nor are assumed to exist in normal use.
12. ECOLOGICAL INFORMATION	
12.1.	Ecotoxicity
12.1.1.	Biodegradation The cellulose fibres in the boards disperses biologically. The gypsum material in board does not disperse biologically in normal conditions.
12.1.2.	Chemical degradation The cellulose fibres in the boards disperses in very acid or base conditions. The gypsum material in the board disperses in very acid conditions.
12.4.	Bioaccumulative potential
12.4.1.	Toxicity to aquatic organisms No information available.
12.4.2.	Toxicity to other organisms No information available.
13. DISPOSAL CONSIDERATIONS	
Dispose in accordance with Local Authorities.	
14. TRANSPORT INFORMATION	
14.3.	Land transport
14.3.1.	Transportation class Products are not classified as a hazardous transportation good.
14.4.	Sea transport
14.4.1.	IMDG-class Products are not classified as a hazardous transportation good.

14.5. Air transport

14.5.1. ICAO/IATA-class

Products are not classified as a hazardous transportation good.

15. REGULATORY INFORMATION

15.1. Information on the warning label

15.1.1. Letter code of the warning symbol and indications of danger for the preparation

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15.1.2. Names of the ingredients given on the warning label

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15.1.3. R-phrases

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15.1.4. S-phrases

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16. OTHER INFORMATION

16.1. Use of material

To be used in wall-, ceiling-, flooring applications or as fire protection boards.

16.2. Installation

Separate installation instructions are available.

16.3. Other information

This safety data sheet does not replace installation instructions. This information is based on the information available for this product as at the date of publication and is provided in good faith.

This safety data sheet does not guarantee the applications for the product as shown in promotional literature.

The user must take care of possible hazardous conditions, if the product is used in applications other than as originally intended.

16.4. Further information available at

Lindner Gipsfaser und Trockenbauprodukt GmbH

16.5. Sources of key data used

Literature, own research.

End of safety data sheet.

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