



Version: 1.0

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## Elmtherm - MSDS

### ELMTHERM

#### 1. Identification of the Materials and of the Company

**Trade Names:** **Elmtherm:** Microporous, insulating board, used for high temperature insulation.

**Manufacturer:** Available on request

#### 2. Composition/Information on Ingredients.

**Description:** Insulating board of microporous core shrunk in PE foil.

**Chemical characterisation:** This product is a manufactured article, not a substance or a preparation. It is manufactured from Silicon Carbide, fumed silica and calcium silicate. It can be covered with a PE foil.

#### 3. Hazard Identification

**Indication of the hazards:** For the installed product in its final application. No known hazards.

By machining (drilling, cutting, sanding, etc.) the product, airborne dust can be released. As with most types of nuisance dust, excessive inhalation of dust may cause irritation of the air ways.

Eye contact with dust may lead to transient eye irritation or inflammation.

Prolonged skin contact may lead to skin irritation.

**For Specific risk information for humans and environment:** see section 7 and 8

#### 4. First Aid Measures

**Inhalation:** Remove to fresh air and drink water

**Ingestion:** Drink water

**Skin contact:** Rinse the skin with water

**Eye contact:** Do not rub the eye, rinse out. If eye irritation or inflammation persists, seek medical advice.

#### 5. Fire Fighting Measures

**Additional Info:** The product is a non-combustible board, according to the local non-combustibility standard.

**6. Accidental Release Measures**

**Methods for cleaning up:** Shovel up small pieces. Dampen down any dust before putting into open skips

**7. Handling and Storage**

**Instructions for handling and machining:**

Dust, generated during machining and processing must be exhausted and the regulatory occupational exposure limits for total and respirable dust must be respected. Work in a well ventilated area Use tools with appropriate dust exhaust equipment When total dust concentration is higher than occupational exposure limits (refer to local regulations), or when dust extraction is not available, use individual respiratory protective equipment. Collect dust with a vacuum cleaner or soak with water before sweeping up.

**Storage:** Store in a dry, covered and frost proof area.

**8. Exposure Controls and Personal Protection**

When machining (drilling, cutting, sanding, etc.) boards, respect Occupational exposure Limits for inhalable and respirable dust. Check the latest Occupational Exposure Limits (OEL) for airborne contaminants that are applicable in your country. Typical Occupational Exposure Limits (8hrs TWA) on the date of issue of this document are:

| In mg/m3          | Fraction   | Country (2) |    |    |        |    |    |    |    |    |        |    |    |    |
|-------------------|------------|-------------|----|----|--------|----|----|----|----|----|--------|----|----|----|
|                   |            | AT          | BE | CH | DE (5) | DK | ES | FR | IE | IT | LU (5) | NL | SE | UK |
| Particles NOR (1) | Inhalable  | 15          | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 |
|                   | Respirable | 6           | 3  | 3  | 3      | 5  | 3  | 5  | 4  | 3  | 3      | 5  | 5  | 4  |

(1) Particles NOR: particles not otherwise classified or regulated (nuisance dust). Applies for all components in the product.  
 (2) Country abbreviations on basis of IANA (Internet Assigned Numbers Authority)

**Engineering controls:** Ensure vacuum dust exhaust with correct filter when using motorised machining tools.

**Personal protection:** Avoid breathing dusts Avoid eye and skin contact  
 Wear personal protective equipment appropriate to the task (see below)

**Respiratory protection:** Use approved individual respirators (e.g. disposable

P2 types) whenever occupational exposure levels are or can be foreseen to be exceeded.

**Eye protection:** Use safety glasses whenever tools are used and dusts are produced

**Skin protection:** Use working clothes and gloves to protect against mechanical injury and direct skin contact

## 9. Physical and Chemical Properties

**Appearance:** slab

**Colour:** light grey

**Odour:** None

### Important safety parameters:

|   |   |
|---|---|
| Boiling point / boiling range:                  | n.a.  |
| Melting point / melting range:                  | n.a.  |
| Flash point:                                    | n.a.  |
| Flammability (solid, gaz):                      | n.a.  |
| Flammability temperature:                       | n.a.  |
| Autoflammability:                               | n.a.  |
| Explosive properties (danger and limits):       | n.a.  |
| Oxidizing properties:                           | n.a.  |
| Vapour pressure:                                | n.a.  |
| Relative density:                               | 300 kg/m <sup>3</sup> (approx.)                         |
| Solubility:                                     | - water solubility: insoluble<br>- fat solubility: n.a. |
| pH value: (when taken into an aqueous solution) | n.a.  |
| Partition coefficient (n-octanol/water):        | n.a.  |
| Viscosity:                                      | n.a.  |

## 10. Stability and Reactivity Nothing to report

## 11. Toxicological Information

**Acute toxicity:** These microporous boards are not expected to have significant acute toxicity. Apart from mild skin, throat, airway or eye irritation, workers producing these boards have reported no significant health complaints.

**Further Information:** Bruch and other researchers at the German Institute for Hygiene and Industrial Medicine at the University of Essen, have found no toxic effects and concluded that SiC is deposited practically inert in the lungs. This study has been published in the British Journal of Industrial Medicine 1993, Vol 50, Book 9, Part 1, pages 797-806 and Part 2, pages 807-813 under the title; Toxicological investigations on silicon carbide, Inhalation studies; In vitro cell tests and long term injection tests.

## 12. Ecological Information Nothing to report

## 13. Disposal Considerations

|                            |  |
|----------------------------|--|
| <b>Product disposal:</b>   | Handle as construction industry waste and dispose in accordance with local legislation |
| <b>Packaging disposal:</b> | Dispose according to local legislation No special measures need to be taken.           |

## 14. Transport Information

|                                   |  |
|-----------------------------------|--|
| <b>Road transport:</b>            | Product is not classified as dangerous |
| <b>Inland shipping transport:</b> | Product is not classified as dangerous |
| <b>Sea shipping transport:</b>    | Product is not classified as dangerous |
| <b>Air transport:</b>             | Product is not classified as dangerous |

## 15. Regulatory Information

|   |  |
|---|--|
| <b>Labeling</b><br>According to EEC Directives:     | The Product is a manufactured article, not a substance nor a preparation. Therefore the EU Directive on classification and labeling 67/548EEC is not applicable. |
| <b>Danger indication:</b><br>Not applicable Symbol: | Not applicable<br>R – sentence: not applicable<br>S – sentence: not applicable   |

## 16. Other Information

The health and safety information contained herein is believed to be accurate and correct based on our current knowledge at the date of issue and no liability can be accepted for any loss, injury or damage resulting from its use. It is intended as a guide for the safe handling, storage and use under normal conditions, but does not necessarily refer to the particular requirements of a customer when further advise should be obtained.

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