

# NEW THERM P

## 1. Product identification of substance/ material

Calcium silicate board containing the substances detailed below.

2. Composition	CAS No.
Synthetic calcium silicate hydrate	1344 – 95-2
Vermiculite	1318 – 00-9
Cellulose fibre	9004 – 34-6

## 3. Hazard identification

Cutting or drilling boards can cause dust emissions which, if not controlled, may be harmful to health.

## 4. First aid measures

**Eye contact:** Flush eyes immediately with water or physiological saline for at least 15 minutes. Remove any contact lenses and open eye widely. If irritation continues, seek medical advice.

**Skin contact:** Wash the skin thoroughly with water.

**Inhalation:** Take exposed person to fresh air.

**Ingestion:** Flush mouth thoroughly and drink plenty of water.

**Information:** Show this document (MSDS) to the doctor or the casualty department.

## 5. Fire fighting measures

**Fire precautions:** No special precautions required.

**Fire fighting equipment:** Not applicable.

**Hazardous decomposition products:** Not flammable. Small quantity of carbon monoxide and carbon dioxide.

## 6. Accidental release measures

**Spillage:** Refer to handling procedures – use personal safety equipment. Restrict spreading. Collect dust with a Type H vacuum cleaner (should comply with BS 5415 as a minimum) or soak with water and sweep up.

## 7. Handling and storage

**Handling:** Engineering methods to control dust emissions are preferred. Effective exhaust ventilation must be in place when drilling or cutting. Avoid inhalation of dust. The use of high speed cutting tools should be avoided unless suitable dust control or extraction can be demonstrated. Care should be taken when handling heavy boards. The boards are not load bearing.

**Storage:** Keep in dry place. Protect from acid. No special labelling or storage conditions are necessary.

## 8. Exposure controls/ personal protection

**Eyes:** Safety glasses suitable for dust protection.

**Skin:** It is good practice to avoid skin contact; wear protective gloves; normal protective working overalls are adequate.

**Inhalation:** If engineering controls and work practice are not effective in controlling dust emissions then wear suitable, approved personal protective equipment; a mask with dust filter type P2 (for fine dust) may be appropriate. Filters have an expiry date and may need replacement. Read the suppliers' information.

**Workplace layout:** No specific requirements. The work area should be well ventilated if dust is generated during work.

## 9. Disposal considerations

**Waste disposal:** Treat as construction industry waste.

## 10. Transport information

No special requirements.

## 11. Physical and chemical properties

Appearance:	Off white
pH:	N/A
Melting point (°C):	N/A
Boiling point (°C):	N/A
Flash point (°C):	N/A
Flammability:	N/A
Auto ignition:	N/A
Explosive limits:	N/A
Density (kg/m <sup>3</sup> ):	500 ± 10%
Water solubility:	N/A
Fat solubility:	N/A
Odour:	Odourless
Additional information:	N/A

N/A = Not applicable

## 12. Stability and reactivity

Stable and inert.

## 13. Toxicological information

**Routes of exposure:** Lungs, gastro-intestinal tract, and eyes (dust created in cutting or drilling of the boards).

**Short term effects:**

**Eyes:** Dust particles may cause temporary irritation and watering of the eyes.

**Skin:** None anticipated.

**Inhalation:** Dust may result in irritation of the respiratory tract.

**Ingestion:** Mild discomfort.

**Long term effects:** Prolonged inhalation of high concentrations of the dust may cause respiratory conditions.

## 14. Ecological information

No significant effect.

## 15. Regulatory information

OCCUPATIONAL EXPOSURE STANDARD (OES)/ MAXIMUM EXPOSURE LIMITS (MEL)

**Calcium silicate:** OES 10mg/m<sup>3</sup> total dust, 4mg/m<sup>3</sup> respirable dust, 8 hour time weighted averages.

**Cellulose:** OES 10mg/m<sup>3</sup> total dust, 4mg/m<sup>3</sup> respirable dust, 8 hour time weighted averages and STEL 20mg/m<sup>3</sup>.

**Vermiculite:** OES 10mg/m<sup>3</sup> total dust, 0.6mg/m<sup>3</sup> respirable dust, 8 hour time weighted averages.

As vermiculite is judged to be geologically similar to mica, we recommend that the OES for mica should be used for guidance.

## 16. Other information

**Fields of application:** Board for use in the construction industry.

**Restriction of application:** None anticipated.

**Requirements concerning special training:** No special training necessary. The worker shall be fully instructed in the conduct of the job and be informed of the contents of this document (MSDS). The requirements of the COSHH Regulations should be met.

**Residual Components:** Quartz is used in the manufacture and a small proportion may remain in the board. The amount is such that exposure to mixed dust from the board at the OES of 5mg/m<sup>3</sup> is not likely to lead to an exposure to quartz in excess of the MEL which for quartz is 0.3mg/m<sup>3</sup> of respirable dust (8 hour time weighted average).

As of the date of preparation of this document, the foregoing information is believed to be accurate and is provided in good faith. However, no warranty or representation with respect to such information is intended or given.