

ThermaCool® Panel – MATERIAL SAFETY DATA SHEET

1. Chemical Product and Company Identification

Product Name	ThermaCool® Wall and Ceiling Panel – TCWP237
Formula	n/a
Supplier	Datum Phase Change Ltd
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2. Composition Information

Patented formulation including natural mined gypsum (Calcium Sulphate Bihydrate – $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$) with reinforcing glass fibres and incorporating an organic microencapsulated phase change material.

3. Physical Data

Appearance	Solid, white colour
Decomposition temperature:	$\text{CaSO}_4 + \text{H}_2\text{O}$ – about 140°C
Flammability	Limited flammability
Explosion Data	Not applicable

4. Health Hazard Data

Main Hazards:	Dust formation while drilling or sawing boards by means of electric or hand tools. Dust masks are recommended.
Other Hazards:	None

5. First Aid Measures

Specialised First Aid and Medical Treatment are required for all exposures

General Information:	The product is not classified as dangerous. In case of skin irritation, contact a dermatologist.
Eye Contact:	No specific measure required. In case of contact with dusts, wash eye with clean water. Seek medical advice if irritation persists.
Skin:	Wash off immediately with soap and water.
Inhalation:	Remove person to fresh air. Ensure supply of fresh air.

Most important symptoms and effects, both acute and delayed. – No specific symptoms or effects have been reported.

Identification of any immediate medical attention and special treatment needed. – Not applicable. Bring this document if you contact a doctor.

6. Fire Fighting Measures

Extinguishing Media:	Use extinguishing media appropriate for surrounding fire.
Special Hazards arising from the Mixture:	The product has limited fire resistance. Packaging may burn.

Advice for Fire Fighters: Hazardous combustion products may include calcium dioxide and sulphur dioxide.

7. Accidental Release Measures

Personal Precaution, protective equipment and emergency procedures – Avoid contact with eyes and skin. Use protective goggles and gloves. See sections 8 & 9.

Environmental Precautions – Keep out of drains, sewers, ditches and waterways. Minimise use of water to prevent contamination.

8. Handling and Storage

Precautions for Safe Handling:	Minimise dust generation while drilling or sawing boards.
Condition for safe storage, including any compatibilities:	Store in a covered, dry, climate controlled area.
Specific End Use:	Internal applications only.

9. Exposure Controls, Personal Protection Equipment

Control Parameters: Total inhalable for CaSO₄ – TWA: 5mg/m³
Exposure Controls / Personal Protection: General protective and hygiene measures: Minimise and control dust.
Respiratory protection: If dust cannot be controlled, wear a half face mask conforming to EN 140
Skin protection: Wear gloves to avoid prolonged or repeat contact
Eye protection: Wear safety goggles conforming to EN 166

10. Stability and Reactivity

Reactivity: No materials to avoid known.
Chemical Stability: Keep dry. Stable under normal storage conditions.
Conditions to Avoid: Stable if stored in dry conditions.
Hazardous Decomposition: Decomposition takes place from temperatures above 1000°C
Products:
Incompatible Materials: None known.

11. Ecological Information

Toxicity: No data available
Persistence and degradability: No data available
Bio accumulative Potential: No data available
Mobility in Soil: No data available
Results of PBT and vPvB assessment: No data available
Other Adverse Effects: Product is not allowed to discharge into aquatic environment.

12. Toxicology Information

Information on toxicological effects – No toxicological test has been completed on the product itself.

LD/LD50 Calcium Sulphate, main component: Acute oral toxicity: LD50 oral rat > 1581 mg/kg – according to guideline OECD 420
Acute inhalation toxicity: LD50 oral rat > 2.61 mg/L – according to guideline OECD 403
Skin irritation: No irritation for rabbit – according to guideline OECD 404
Sensitization: No effect anticipated. Not hazardous by OSHA criteria

13. Disposal Considerations

Waste Treatment Methods: Keep out of drains, ditches and waterways. Wastes from gypsum are normally classified as not hazardous. Do not co-dispose with municipal waste, but dispose at an authorized site in accordance with local Environmental Regulations. Non-contaminated packaging can be recycled.

14. Transport Information

Not classified as dangerous in terms of transport regulations (IMDG, ADR, RID, IACO/IATA)

NU Number: Not to apply
NU Proper Shipping Name: Not to apply
Transport Hazard Class: Not to apply
Packing Group: Not to apply
Environmental Hazard: Not to apply
Special Precaution for Users: Not to apply
Transport in Bulk According to Annex II of MARPOL 73/78 and IBC Code: Not to apply

16. Other information

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The product is manufactured under a quality system certified as conforming with ISO 9001 and complies with EN 15283-2

Abbreviations and Acronyms

TWA: Time Weighted Average

LD50: Median Lethal Dose

OECD: Organisation for Economic Cooperation and Development

PBT: Persistent, Bio Accumulative, Toxic Chemical

vPvB: very Persistent, very Bio Accumulative chemical

IMDG: International Maritime Dangerous Goods

ADR: Agreement on the transport of Dangerous goods by Road

RID: Regulations on the International transport of Dangerous goods by Rail.

IATA: International Air Transport Association

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