

# SAFETY DATA SHEET



Trade name: **Kalsi®**

Issued: 20/11/2015

## 1. Identification of the product and of the company

**Product name:** Kalsi®  
**Synonyms:** KALSICEILING • KALSIPARTITION • KALSICLAD • KALSIFLOOR • KALSIPLANK • KALSIDECK  
**Intended Product use:** Building Applications • Building Material • Construction Industry  
**Company**  
Comp : ETERNIT  
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## 2. Composition / Information on ingredients

**Description:** Fibre Silicate Board, in large dimensions, for general applications in building construction.

Ingredient	Identification	Classification	Content
QUARTZ (SILICA CRYSTALLINE)	CAS: 14808-60-7 EC: 238-878-4	Not Available	30 to 60%
NATURAL ORGANIC FIBER CEMENT	Not Available	Not Available	30 to 60%
WATER	CAS: 7732-18-5 EC: 231-791-2	Not Available	<10%
CALCIUM SILICATE HYDRATE	Not Available	Not Available	Not Available

**Chemical characterisation** This product is a manufactured article, not a substance nor a preparation.  
It is manufactured from a combination of cement, calcium silicates hydrates, selected quartz and fibres.  
All Kalsi boards are produced without using any asbestos (such as chrysotile, amosite, chrocidolite or any other kind of asbestos).

## 3. Hazard Identification

**Indication of the hazards:** The installed product in its final application: no hazards known.  
  
When machining (drilling, cutting, sanding, etc.) the product: airborne dust can be released.



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- As with most types of nuisance dust, excessive inhalation of dust may cause irritation of the airways.
- Eye contact with dust may lead to transient eye irritation or inflammation.
- Prolonged skin contact may lead to skin irritation.
- Long term hazards: see section 11

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

## 4. First aid measures

**Inhalation:** Remove to fresh air  
**Ingestion:** Drink plenty of water  
**Skin contact:** Rinse the skin thoroughly with water  
**Eye contact:** Do not rub the eye, flush copiously for at least 15 minutes. If eye irritation or inflammation persists, seek medical advice.

## 5. Fire fighting measures

**Additional Information:** n/a

## 6. Accidental spill / release measures

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

## 7. Handling and storage

**Handling:** 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 dry, covered and frost proof area.



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## 8. Exposure controls / Personal protection

When machining (drilling, cutting, sanding, etc.) boards, respect Occupational Exposure Limits for inhalable and respirable dust and for respirable quartz 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/m <sup>3</sup>	Fraction	COUNTRY (3)					
		AUS	CHN	HK	INDIA	MY	SG
Particles NOR (1)	Inhalable	10		10		10	10
	Respirable		4	4			5
Quartz (2)	Respirable	0.2	0.5	0.1		0.1	0.1

(1) Particles NOR: particles not otherwise classified or regulated (nuisance dust).  
Applies for all other components in the product.

(2) Quartz – CAS number: 14808 - 60 - 7

(3) 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:** Rigid self supporting board with smooth upper surface

**Colour:** off-white **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.

**Auto-flammability:** N.A.

**Explosive properties (danger and limits):** N.A.

**Oxidizing properties:** N.A.



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Vapour pressure:	N.A.
Relative density:	ca. 1200kg/m <sup>3</sup>
Solubility:	
- water solubility:	Insoluble
- fat solubility:	N.A.
pH value:	12 to 13
Partition coefficient (n-octanol/water):	N.A.
Viscosity:	N.A.

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## 10. Stability and reactivity

<b>Chemical stability</b>	Stable under recommended conditions of storage.
<b>Conditions to avoid</b>	Avoid heat, sparks, open flames and other ignition sources.
<b>Material to avoid</b>	Incompatible with strong acids (eg. hydrofluoric acid).
<b>Hazardous Decomposition</b>	May evolve toxic gases if heated to decomposition.
<b>Products</b>	
<b>Hazardous Reactions</b>	Hazardous polymerization is not expected to occur.

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## 11. Toxicological information

### Health Hazard Summary

Low toxicity. Under normal conditions of use, adverse health effects are not anticipated. Adverse health effect associated with silica, such as the development of silicosis (lung fibrosis) are not anticipated unless chronic (ie. prolonged and repeated) exposure to silica quartz dust occurs.

Crystalline silica is classified as carcinogenic to humans (IARC Group 1). As for all products containing quartz, such as concrete and clay, this product will also release dust containing quartz particles when it is mechanically machined (cutting, sanding, drilling). Inhalation of high concentrations of dust can irritate the respiratory system. Dust can also irritate the eyes and/or the skin. The inhalation of quartz containing dust, in particular high concentration of fine (respirable) dust or over a prolonged period of time can lead to lung disease (silicosis) and an increased risk of lung cancer. Avoid the inhalation of dust by using machinery with dust extraction. Guarantee adequate ventilation on the work floor. Avoid contact with the eyes and skin and avoid inhalation of the dust by wearing appropriate personal protection gear (safety goggles, protective clothing and dust mask).

### Eye

Low to moderate irritant. Contact with dust may result in mechanical irritation. However, due to product form (solid), contact with dusts is not anticipated unless product is cut or damaged.



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<b>Inhalation</b>	Harmful via chronic exposure. An inhalation hazard is not anticipated unless this material is cut, drilled or sanded with dust generation, which may result in mucous membrane irritation of the upper respiratory tract with over exposure. Chronic exposure to crystalline silica may result in lung fibrosis (silicosis). Crystalline silica is classified as carcinogenic to humans (IARC Group 1).
<b>Skin</b>	Low irritant. Prolonged or repeated contact may result in mild irritation due to mechanical action.
<b>Ingestion</b>	Ingestion is considered unlikely due to product form.
<b>Toxicity data</b>	QUARTZ (SILICA CRYSTALLINE) (14808-60-7) LCLo (inhalation) 300 ug/m <sup>3</sup> /10 years (human) TCLo (inhalation) 16 000 000 particles/ft <sup>3</sup> /8 hours/17.9 years (human-fibrosis)

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**12. Ecological information** Nothing to report.

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## 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.

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## 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.

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## 15. Regulatory information

### Labelling according to EEC – Directives:

The Product is a manufactured article, not a substance nor a preparation. Therefore the EU Directive on classification and labelling 67/548EEC is not applicable.

<b>Danger indication:</b> not applicable	Symbol: not applicable
	R – sentence: not applicable
	S – sentence: not applicable

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## 16. Other information

The recommendations for use and installation of Kalsi®, of various building systems, have to be followed as indicated in the Technical Manual, or in specifications.

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 advice should be obtained.

This data sheet and the information it contains is not intended to supersede any terms or conditions of sale and does not constitute a specification. Nothing contained herein is to be construed as a recommendation for use in violation of any patent or applicable laws or regulations.