



Papan Bangunan Bebas Asbes

## MATERIAL SAFETY DATA SHEET

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23 June 2010

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### 1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Product Name: **Kalsi** boards: **KalsiRata, KalsiLing, KalsiBoard Ling, KalsiPart, KalsiClad, KalsiPlank, KalsiFloor...**

Intended product use: Fibre-cement boards, or Cellulose-cement boards, or Calcium silicate boards, from 3 mm till 20 mm of thickness.

Company description: PT. ETERNIT GRESIK

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### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Description:

Fibre-cement boards, or Cellulose-cement boards, or Calcium silicate boards, from 3mm to 20mm of thickness, for various applications in the construction industry (e.g. ceiling, partitions, cladding, facades, flooring.....)

Chemical characterization:

The **Kalsi** board is a manufactured article, not a substance nor a preparation.

The **Kalsi** boards are manufactured from cement, quartz sand, organic reinforcement fibers (such as selected cellulose fibres), natural calcium silicates and water.

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.

By machining (drilling, cutting, sanding, etc.) the product:

- 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 could lead to irritation for sensitive persons.
- The handling and machining of this product may lead to the release of quartz containing dust. The inhalation of quartz from occupational sources may lead to chronic lung disease (silicosis) and an increased risk of lung cancer.

Specific risk information for humans and environment:

See sections N°7 and N°8.



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### 4. FIRST AID MEASURES

Inhalation : Move to a ventilated area and if necessary visit a doctor or a hospital  
Skin contact : Clean it with water. If necessary visit a doctor or a hospital  
Eye contact : Do not rub the eye, rinse out with water. If necessary visit a doctor or a hospital.

### 5. FIRE FIGHTING MEASURES

- Flash point : Non-combustible.  
- Flammable limits : LEL: Not applicable,  
UEL: Not applicable.  
- Extinguishing media : Not applicable.  
- Special fire fighting procedures : None.  
- Unusual fire and explosion hazards : None.

### 6. ACCIDENTAL SPILL / RELEASE MEASURES

Not applicable.

### 7. HANDLING AND STORAGE

Handling:

During machining the **Kalsi** boards:

- Work in well ventilated area.
- Use tools with dust exhaust system.
- Wear respiratory protective equipment.
- When dust concentration is higher than occupational exposure limit, respiratory protective equipment is obligatory.
- Collect dust with a vacuum cleaner; hose down or wet sweep work areas.

Storage:

Pallets should be stored on a flat surface, in a dry, covered, frost proof and well ventilated area. During transport, the products should be covered.



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### 8. EXPOSURE CONTROL / PERSONAL PROTECTION

- Check the latest Occupational Exposure Limits (OEL) for airborne contaminants that are applicable in your country.
- Engineering controls: Ensure vacuum dust exhaust with correct filter when using motorized machining tools.
- Personal protection: Avoid breathing dusts, avoid eye and skin contact, and wear personal protective equipments appropriate for the task.
- Respiratory protection: Use approved respirators whenever occupational exposure levels are or can be foreseen to be exceeded.
- Eye protection: Use safety goggles whenever tools are used and dust is produced.
- Skin protection: Use working clothes and gloves to protect against mechanical injury and direct skin contact.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : Different colours are available.
- Delivery form : Rigid, self-supporting board.
- Odour : None.

Important safety parameters:

- Boiling point : Not applicable.
- Melting point : Not applicable.
- Flash point : Not applicable.
- Flammability : Not applicable.
- Auto flammability : Not applicable.
- Explosive properties : Not applicable.
- Oxidizing properties : Not applicable.
- Vapour pressure : Not applicable.
- Average density : 1.30 Kg/dm<sup>3</sup>.
- Solubility:
  - . Water solubility : Insoluble.
  - . Fat solubility : Not applicable.
- pH value : 12 – 13.
- Partition coefficient : Not applicable.
- Viscosity : Not applicable.

### 10. STABILITY AND REACTIVITY

Stability: Stable.

Incompatibility (materials to avoid): Strong acids.



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### 11. TOXICOLOGICAL INFORMATION

Acute toxicity:

No acute toxicity other than transient irritation of exposed mucosae (eyes, throat, airways).

Further information:

- Prolonged skin contact can lead to moderate skin irritation.
- Hazards are related to the inhalation of dust produced during machining. This risk will be minimal if correct working practices are observed and applied.
- Short-term inhalation of dust can cause transient respiratory irritation.
- As with most types of inorganic and organic dust, non-specific to the **Kalsi** products, the inhalation of excessive concentrations of dust over prolonged periods of time can lead to chronic inflammation of the airways (industrial bronchitis).

### 12. ECOLOGICAL INFORMATION

Nothing to report.

### 13. DISPOSAL CONSIDERATION

- The product has to be handled as building waste in accordance with local legislation
- Please check that you comply with the entire local, state and government regulations for disposal of waste containing quartz and the other described raw materials.

### 14. TRANSPORT INFORMATION

Road transport : **Kalsi** boards are not classified as dangerous.  
Inland shipping transport: **Kalsi** boards are not classified as dangerous.  
Sea shipping transport : **Kalsi** boards are not classified as dangerous.  
Air transport : **Kalsi** boards are not classified as dangerous.

### 15. REGULATORY INFORMATION

**Kalsi** boards are a manufactured article, not a substance nor a preparation. According to the Indonesia regulations, no label is required.

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## 16. OTHER INFORMATION

The recommendations for machining and installation of the above mentioned **Kalsi** boards have to be followed.

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.

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