

Date of version: 22-11-2007

version: 01

## MATERIAL SAFETY DATA SHEET

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| <b>1. Product and company</b>                             |  |
| Manufacturer: Visnes Kalk AS<br>N-6493 Lyngstad<br>Norway | Telephone: +47 71 299220<br>Telefax: +47 71 299221 |

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| <b>Product identification</b>                                |
| <b>Product name:</b> Visnes marble/Visnes marmer             |
| <b>Chemical name:</b> Calcium Carbonate (CaCO <sub>3</sub> ) |
| <b>Synonyms:</b> Crushed marble, Agricultural limestone.     |
| <b>Person of responsibility:</b> KJE                         |

|                      |  |
|----------------------|--|
| <b>Sales office:</b> | Visnes Kalk<br>6493 Lyngstad<br>Telephone: +47 71 299220<br>Telefax: +47 71 299221 |
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| <b>2. Composition of product</b>            |  |  |                  |                                   |
|---|--|--|------------------|-----------------------------------|
| Nr.   | Chemical composition                             | CAS no.                                  | Conc. by mass, % | Symbol / Identification of danger |
| 1   | Calcium carbonate (CaCO <sub>3</sub> )           | 1317-65-3                                | - 98%            | n.a.                              |
| 2   | Magnesium carbonate (MgCO <sub>3</sub> )         | 546-93-0                                 | - 1%             | n.a.                              |
| 3   | Iron(III)oxide (Fe <sub>2</sub> O <sub>3</sub> ) | 1309-37-1                                | - 0,1%           | n.a.                              |
| 4   | Silica(quartz)( SiO <sub>2</sub> )               | 14808-60-7                               | - 0,6%           | Xn                                |
| 5   | Particle sizes                                   | 0,5-2 mm, 1-3 mm, 2-5mm, 5-8mm en 8-11mm |                  |                                   |
| legend: n.a. = Not applicable, Xn = Harmful |  |  |                  |                                   |

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| <b>3. HAZARDS IDENTIFICATION</b>   |
| Humans: The product poses little or no danger to human health, but may cause effects of irritation, similar to other dusts of nuisances. |
| The product is not flammable.  |
| Environment: The product does not constitute any environmental hazard.   |

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| <b>4. First Aid</b>  |
| Ingestion: If large amounts are swallowed, give plenty of water or milk to drink, avoid vomiting. Excessive inhalation of dust may cause respiratory irritation. |
| Skin contact: Wash with water and soap.  |
| Eye contact: May cause eye irritation. Rinse immediately with water for 10-15 minutes. Keep eyes open.   |

**5. Fire-fighting Measures**

Fire and explosion hazards: Not combustible. The product will discharge carbon dioxide (CO<sub>2</sub>) upon strong heating, and function as an extinguishing agent.

Use extinguishing media appropriate to the surrounding fire conditions.

General: In the event of a fire, wear full protective clothing.

Other information: Decomposition of the product by strong heating/fire will form calcium oxide(CaO) and carbon dioxide(CO<sub>2</sub>). Avoid contact with the calcium oxide, a corrosive substance.

**6. Accidental Release Measures**

Personal precautions: Avoid skin contact and inhalation of dust. Use protective equipment if necessary.

Environmental precautions: No special precautions are necessary. The product is only slightly soluble in water and will eventually sink to the bottom.

Methods for cleaning up: Collect as much as possible by mechanical means(shovel-vacuum cleaner etc). Wash area afterwards. Avoid contact with acids.

**7. Handling and storage**

Handling: Use with adequate ventilation. Minimise dust. Avoid inhalation, skin and eye contact.

Storage: store fine gradings in dry place. Keep away from acids.

**8. Exposure Controls/Personal Protection**

Airborne Exposure limits: 10mg/m<sup>3</sup> nuisance dust.

Respiratory protection: Gas mask may be necessary, filter B (grey) or dust filter Iib (p2).

Hand protection: Wear gloves.

Skin protection: Wear protective clothing, when there is a risk of direct contact or splashes.

Eye protection: Face protection shall be used when risk of contact or splashes.

**9. Physical and Chemical Properties**

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| Appearance: chips   |
| Colour: white, greyish  |
| Odour: odourless  |
| Solubility: soluble in dilute acids. Water solubility: 0,014 g/l (20 °C), 0,018 g/l (75 °C) |
| Density g/cm <sup>3</sup> : 2,7   |
| pH in solution: pH ca. 8,5-9,5 ( 10% water solution)  |

**10. Stability and Reactivity**

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| Stability: Stable under ordinary conditions of use and storage.  |
| Hazardous decomposition of product: When heated (825 °C), calcium oxide fumes are emitted, and carbon dioxide is liberated, which can displace oxygen (danger of suffocation). |
| Incompatibilities: Acids, fluorine magnesium with hydrogen.  |

**11. Toxicological information**

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| Toxicological data for calcium carbonate: Oral-rat LD50: 6450 mg/kg. Eye-rbt: 0,75 mg/24H Severe. Skn-rbt: 500mg/24H. Moderate. |
| Epidemiology: Not found   |
| Teratogenicity: Not found   |
| Reproductive effects: Not found   |
| Neurotoxicity: Not found  |
| Mutagenicity: Not found   |

**12. Ecological information**

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| General: The product does not constitute an environmental hazard         |
| Mobility: Spreads like other dusts. Not volatile                         |
| Degradability: Decomposes upon reaction with acidic materials.           |
| Bioaccumulative potential: Does not bio accumulate.                      |
| LC <sub>50</sub> Fish 96 h > 10 000 mg/l                                 |
| LC <sub>50</sub> Daphnia 49 h > 1 000 mg/l                               |
| LC <sub>50</sub> Algae 72 h > 200 mg/l                                   |
| Other: Release to water systems will cause slight increase in alkalinity |

**13. Disposal Consideration**

Destruction is not necessary. The material may be land filled in accordance with local and national regulations.

**14. Transport**

General: not dangerous goods.

Not regulated

**15. Regulatory information**

Composition: Calcium carbonate ( $\text{CaCO}_3$ )  
Iron(III)oxide ( $\text{Fe}_2\text{O}_3$ )  
Magnesium carbonate ( $\text{MgCO}_3$ )

R phrases: None

S phrases: None

**16. Other Information**

Direction of use: The product is used for several different industrial and agricultural purposes.

Date: 22.11.2007

Signature:



Karl Johan Eide