

# Chalk Range

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## 1. Identification of the substance and the Company

**Chemical Name:** Calcium carbonate  
**REACH Pre-registration Number:** Does not require registration  
**Trade Name:** Chalk, Agricultural Lime, Limestone Fines, Woldlime®  
**Synonyms:** Chalk, Calcium carbonate

**Supplier:** Singleton Birch Ltd, Melton Ross Quarries, Barnetby, North Lincolnshire, DN38 6AE.  
**Tel:** +44 (0)1652 686000 **Fax:** +44 (0)1652 686081

**Emergency Tel:** +44 (0)1652 686000 (24Hr)

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## 2. Hazards Identification

Not classified.

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## 3. Composition/Information on Ingredients

**Composition:** Calcium carbonate, CaCO<sub>3</sub> > 90%  
See Individual Product Sales Specifications for full detail.

**Safety Phrases:** S22, S25, S36/37/39  
**Risk Phrases:** Not classified

**CAS Number:** 1317-65-3  
**EINECS Number:** 207-439-9

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## 4. First-aid Measures

**Inhalation:** Remove from exposure. Irrigate nose and throat with water for at least 20 minutes. Seek medical Attention if required.

**Skin Contact:** Remove from exposure. Wash affected area immediately with plenty of water for at least 15 to 20 minutes. Remove contaminated clothing. Seek medical attention if required.

**Eye Contact:** **SPEED IS ESSENTIAL.** Remove from exposure. Irrigate immediately with plenty of water for at least 15-20 minutes. Seek medical attention if required.

**Ingestion:** Remove from exposure. Wash mouth with water and drink plenty of water. Do not induce vomiting. Seek medical advice if required.

**General:** No known delayed effects. Ensure that eyewash/shower facilities are available.

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## 5. Fire-Fighting Measures

Non flammable, inhibits the spread of flame.

**Extinguishing Media:** No special fire fighting procedure or explosion hazard is identified.

**Special Exposure Hazards:** No special exposure hazards.

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## 6. Accidental Release Measures

**Personal Precautions:** Avoid contact with skin and eyes. Use barrier cream where necessary. Avoid inhalation of dust, where practicable ensure sufficient ventilation and respiratory protection is provided.

**Environmental Precautions:** Cover or enclose area, if possible, to avoid unnecessary dust hazard. Avoid contamination of drains and watercourses. Any large spillages into water courses must be alerted to the Environment Agency or other regulatory bodies.

**Cleaning Methods:** Contain spillage and keep dry if possible. Use vacuum suction unit, or shovel into bags (using appropriate protective clothing, see Section 8).

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## 7. Handling and Storage

**Handling:** Handling systems should preferably be enclosed or suitable ventilation installed to maintain atmospheric dust below WEL, see Section 8.

**Storage:** Store in a dry environment.

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## 8. Exposure Controls/Personal Protection

**Exposure Limit Values:** Workplace Exposure Limits (WEL)

*Total Inhalable Dust*, 10 mg/m<sup>3</sup>, (8hr TWA)

*Respirable Dust*, 4 mg/m<sup>3</sup>, (8hr TWA)

**Occupational Exposure Controls:** Handling systems should preferably be enclosed or suitable ventilation installed to maintain atmospheric dust below WEL.

**Individual Protection Measures:**

**Respiratory Protection:** Wear suitable respiratory equipment (dust/respiratory mask or air stream helmet) that will afford adequate protection.

**Hand Protection:** Wear suitable gloves that will afford adequate protection.

**Eye Protection:** Wear suitable eye protection (safety glasses/safety goggles/face shield) that will afford adequate protection.

**Skin Protection:** Wear suitable overalls and safety footwear that will afford adequate protection.

**Environmental Exposure Controls:** All ventilation/dust extraction systems should be filtered before discharge to atmosphere.

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## 9. Physical and Chemical Properties

**General Information:**

**Appearance:** White solid material of varying sizes: lump, granular or fine powder

**Odour:** Slight earthy odour

**Important Health, Safety & Environmental Information:**

Calcium carbonate reacts with acids to form calcium salts. Acts as a weak alkali in water.

**pH:** Aqueous suspensions are alkaline (pH 12.4, approx 2g/l)

**Solubility in water:** 14mg/l at 10 °C

**Melting Point:** Decomposes at 900 °C to form calcium oxide which melts at 2570 °C

**Boiling Point:** Decomposes at 900 °C to form calcium oxide which boils at 2850 °C at 100 hPa

**Specific Gravity:** 2.71 g/cm<sup>3</sup> at 20 °C

**Bulk Density:** 1000 - 2000 kg/m<sup>3</sup> at 20 °C

**Vapour Pressure:** Non volatile

**Partition Coefficient:** Not applicable

**Flash Point:** Not applicable

**Flammability:** Not flammable

**Explosive Properties:** Not flammable

**Relative Molecular Mass:** 100.09

## 10. Stability and Reactivity

**Long term Stability:** Stable

**Conditions to Avoid:** Avoid exposure to air or moisture.

**Materials to Avoid:** Reacts vigorously with acids to form calcium salts.

**Hazardous Decomposition Products:** None

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## 11. Toxicological Information

### Inhalation

Acute Effect: High concentration of dust may cause irritation to the respiratory tract.

Long Term Exposure: None.

### Ingestion

Acute Effect: Calcium carbonate is not toxic.

Long Term Exposure: May cause irritation to the gastrointestinal tract.

### Skin Contact

Acute Effect: May cause drying of the skin.

Long Term Exposure: Prolonged and repeated skin contact may cause dermatitis.

### Eye Contact

Acute Effect: May cause irritation to the eyes.

Long Term Exposure: Risk of severe and/or permanent damage to eyes.

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## 12. Ecological Information

**Ecotoxicity:** The product is considered to be non toxic. LC50 aquatic toxicity values are > 100 mg/l.

**Mobility:** Sparingly soluble in water to form alkaline solution.

**Persistence and Degradability:** Non bio-degradable.

**Bioaccumulative Potential:** The product has no potential to accumulate in the food chain.

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## 13. Disposal Considerations

Disposal should be in accordance with local and national legislation.

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## 14. Transport Information

**UN Number:** Not classified

**Classification:** Not classified as hazardous for transport.

IMDG/GGVSea (Sea) Classification: Not subject to identification.

ADR (Road) Classification: Not subject to identification.

RID (Rail) Classification: Not subject to identification.

ICAO/IATA (Air) Classification: Not classified.

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## 15. Regulatory Information

**Labelling according to EEC-directives:**

Symbol and classification of the substance according to directive 67/548/EEC: None

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## 16. Other Information

**Risk Phrases:** Not classified.

**Safety Phrases:**

S22	Do not breathe dust.
S25	Avoid contact with eyes.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.

**Further Information:** The information contained therein is based on the state of our knowledge regarding the product, at the mentioned date. They are provided in good faith. It does not exempt the user from knowing and applying all texts regulating his activity. It will be his sole responsibility to take all necessary precautions when using the products.

**Guidance & References:** This Safety Data Sheet has been prepared generally in accordance with the European REACH regulations (REGULATION (EC) No 1907/2006, Annex II) and Directive 98/24/EC.

**Revision:** The present version is a renewal version, in order to be in accordance with the Annex II of the REACH Regulation (EC) 1907/2006.

**Last Revision Date:** October 2009

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