

SD3

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**Safety Data: Ultralime® Hydrated Lime Range**

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<b>1</b>	<b>Identification:</b>
<b>Chemical Name:</b>	Calcium Hydroxide
<b>Trade Name:</b>	Ultralime® Hydrated Lime
<b>Synonyms:</b>	Calcium hydroxide, hydrated lime, slaked lime, hydrated high calcium lime.
<b>CAS Number:</b>	1305-62-0
<b>EINECS Number:</b>	215-137-3
<b>Supplier:</b>	Singleton Birch Ltd.
<b>Emergency Tel:</b>	01652 686000 Fax: 01652 686081
<b>2</b>	<b>Composition/Information on ingredients:</b>
<b>Composition:</b>	See Sales Specifications for details.
<b>Safety Phrases:</b>	S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S39 Wear eye / face protection.
<b>Risk Phrases:</b>	R41 Risk of serious damage to the eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Do not attempt neutralisation. Seek medical advice immediately.
<b>Classification:</b>	Irritant
<b>3</b>	<b>Health Hazard Identification:</b>
<b>Routes of Exposure:</b>	Skin contact, inhalation or ingestion of dust or aqueous suspension
<b>Occupational Exposure Standard:</b>	5 mg/m <sup>3</sup> , (8hr TWA).
<b>4</b>	<b>First Aid Measures:</b>
<b>Skin Contact:</b>	Remove contaminated clothing and wash affected area immediately with plenty of water.
<b>Eye Contact:</b>	Irrigate eyes with water for at least 20 minutes. If necessary seek medical attention.
<b>Inhalation:</b>	Irrigate nose and throat with water. If necessary seek medical attention.
<b>Ingestion:</b>	Do not induce vomiting. Wash mouth with water and drink copious quantities of water. Seek medical advice if in doubt.
<b>5</b>	<b>Fire Fighting Measures:</b>
<b>Flammability:</b>	Non flammable
<b>Extinguishing Media:</b>	As required.
<b>6</b>	<b>Accidental Release Measures:</b>
<b>Leaks and Spills:</b>	Remove dry powder or slurry mechanically, wash remains away with water.
<b>Personal protection:</b>	Refer to section 8
<b>7</b>	<b>Handling and Storage:</b>
<b>General:</b>	Keep dust levels to a minimum. Avoid contact with skin and eyes, use barrier cream where necessary.
<b>Storage:</b>	Minimise contact with air and moisture. Aluminium containers should not be used for moist material or aqueous suspensions.
<b>8</b>	<b>Exposure Controls/Personal Protection:</b>
<b>Protective Clothing:</b>	Overalls, gloves goggles and boots should be worn.
<b>Respiratory Protection:</b>	If required, suitable approved respiratory protective equipment should be used.
<b>Ventilation:</b>	Ventilation equipment should be used in buildings where necessary to ensure that dust levels are kept below the OES.

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Refrence: SB/SD/003 Revision:3 Date:25/10/02 Page 1 of 2

Singleton Birch Limited

Melton Ross Quarries, Barnetby, North Lincolnshire DN38 6AE

Telephone 01652 686000 Fax 01652 686081

Registered Number 9433 England Registered Office as above Established 1815

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## Chemical and Physical Properties:

**Appearance and Odour:** White fine powder with slight earthy odour.  
**Chemical Properties:** Aqueous suspensions are strongly alkaline (pH 12.4, approx 2g/L).  
**Empirical Formula:** Ca(OH)<sub>2</sub>  
**Chemical Formula:** Ca(OH)<sub>2</sub>  
**Relative Molecular Mass:** 74.09  
**Density:** 2.24 g/cm<sup>3</sup>  
**Bulk Density:** 0.4 - 0.54 g/cm<sup>3</sup>  
**Solubility:** 1.76 g/l at 10°C, 0.71 g/l at 100°C  
**Viscosity:** Depends on concentration of suspension.  
**Boiling Point:** Decomposes at 580°C to form calcium oxide which boils at 2850°C.  
**Melting Point:** Decomposes at 580°C to form calcium oxide which melts at 2614°C.  
**Flammability:** Non flammable

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## Stability and Reactivity:

**Long term Stability:** Stable  
**Conditions to Avoid:** Avoid undue exposure to air or moisture.  
**Materials to Avoid:** Reacts with acids to form calcium salts, reacts with aluminium in the presence of moisture to give off hydrogen.

### Hazardous

**Decomposition:** Decomposes at 580°C to form calcium oxide.

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## Toxicological Information:

**Symptoms of Exposure** Irritating to skin, may cause burns in the presence of moisture. Eye exposure may cause partial or total sight loss if untreated. Irritant to respiratory tract if inhaled. Will cause damage to gastrointestinal tract if ingested and untreated.  
**Acute:**  
**Long Term:** May cause skin irritation and dermatitis. Prolonged and repeated inhalation of dust may damage the respiratory tract.

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## Ecological Information:

**Release into Water:** Aqueous suspensions are strongly alkaline (pH up to 12.4).

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## Disposal Considerations:

**Waste Disposal:** Dispose of only at an approved waste disposal site.

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## Transport Information:

<b>United Nations Number:</b>	Not listed.	RID: International rail transport regulation for dangerous substances.
<b>ADR/RID Classification:</b>	Not classified.	ADR: European agreement on road transport of dangerous substances.
<b>IMDG Classification:</b>	Class 8, page 8144	IMDG: International Maritime transport of Dangerous Goods.
<b>IATA Classification:</b>	Not classified.	IATA: International Air Transport Association.

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## Regulatory Information:

**Risk/Safety Phrases:** See section 2.

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## Other Information:

### Safety Data:

SD1 - Chalk	
SD2 - Burnt Lime	SD2.1 - Birchgro
SD3 - Hydrated Lime	
SD4 - Aqualime	SD4.1 - Hydrogel

The information contained in this data sheet is, to the best of our knowledge, true and accurate, but any recommendations or suggestions which may be made are without guarantee, since the conditions of use are beyond our control.