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## Safety Data: Hydraulic Lincolnshire Lime™ Range

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### 1 Identification:

**Chemical Name:** Calcium hydroxide  
**Trade Name:** Hydraulic Lincolnshire Lime  
**Synonyms:** Hydraulic Lime, Natural Hydraulic Lime.

#### Supplier:

Singleton Birch Ltd, Melton Ross Quarries,  
Barnetby, North Lincolnshire, DN38 6AE.  
**Tel:** 01652 686000 **Fax:** 01652 686081

**Emergency Tel:** 01652 686000 (24Hr)

### 2 Composition/Information on ingredients:

#### Composition:

Calcium hydroxide  $\text{Ca}(\text{OH})_2$  with calcium silicates, aluminates, ferro-aluminates and sulphates. Also small quantities of magnesium and other trace elements. See Sales Specifications for full detail.

**CAS Number:** 1305-62-0 calcium hydroxide

**EINECS Number:** 215-137-3 calcium hydroxide  
See section 15 for risk and safety detail.

### 3 Health Hazard Identification:

#### Routes of Exposure:

Skin contact, inhalation or ingestion of dust or aqueous suspension



#### Workplace Exposure Limit (WEL):

5 mg.m<sup>-3</sup>, (8hr TWA).

### 4 First Aid Measures:

#### Skin Contact:

Irritant - may cause burns in the presence of moisture. Remove contaminated clothing and wash affected area immediately with plenty of water.

#### Eye Contact:

Irritant - may cause serious damage to eyes if left untreated. SPEED IS ESSENTIAL. Irrigate with eyewash or clean water until medical help is obtained. Seek medical attention as soon as possible.

#### Inhalation:

Irrigate nose and throat with water for at least 20 minutes. If necessary seek medical attention.

#### Ingestion:

Do not induce vomiting. Wash mouth with water and drink copious quantities of water. Seek medical advice if in doubt.

**5 Fire Fighting Measures:****Flammability:**

Non flammable, inhibits the spread of flame

**Extinguishing Media:**

No special fire fighting procedure, extinguisher media or explosion hazard is identified.

**6 Accidental Release Measures:****Leaks and Spills:**

Contain spillage and keep dry if possible. Use vacuum suction unit, or shovel into bags (using appropriate protective clothing - see Section 8). Cover or enclose area if possible to avoid unnecessary dust hazard. Avoid contamination of drains and watercourses. Spillage into watercourses must be alerted to the Environment Agency or other appropriate regulatory body.

**7 Handling and Storage:****General:**

Avoid contact with skin and eyes, use barrier cream where necessary. Avoid inhalation of dust.

**Storage:**

Minimise contact with air and moisture. Product in bags should be stored in dry, draught-free building.

**8 Exposure Controls/Personal Protection:**

Handling systems should preferably be enclosed, or suitable ventilation installed to maintain atmospheric dust below WEL.

**Respiratory Protection:**

Wear suitable respiratory protection equipment if exposure to atmospheric dust levels above the WEL is likely. Use approved respiratory equipment to either EN149:2001 or for heavy exposure EN 146.

**Clothing:**

Wear suitable hand protection to BSEN374.

Wear suitable eye protection to BSEN 166.

Wear suitable long sleeved overalls, close fitting at openings.

Wear suitable safety footwear that resists dust penetration.

**9 Chemical and Physical Properties:****Appearance and Odour:**

White fine powder with slight earthy odour.

**Chemical Properties:**

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

Calcium Hydroxide  $\text{Ca}(\text{OH})_2$  with calcium silicates, aluminates, ferro-aluminates and sulphates. Also small quantities of magnesium and other trace elements. See Sales Specifications for full detail.

**Bulk Density:** 0.43 - 0.48 g/cm<sup>3</sup>

**Boiling / Melting Point:**

Decomposes at 580°C to form calcium oxide (quicklime).

**10 Stability and Reactivity:**

**Long term Stability:** Stable

**Conditions to Avoid:**

Avoid undue exposure to air or moisture.

**Materials to Avoid:**

Reacts vigorously with acids to form calcium salts, reacts with aluminium lead and brass in the presence of moisture.

**Hazardous Decomposition:**

Decomposes at 580°C to form calcium oxide.

**11 Toxicological Information:****Symptoms of Exposure**

**Inhalation:** High concentration of dust may be irritant to the respiratory tract.

**Skin Contact:** Irritant in the presence of moisture.

**Eye Contact:** Painful irritant, with risk of severe and permanent damage to eyes.

**Ingestion:** May cause irritation of the gastrointestinal tract.  
**Long term exposure:** Prolonged and repeated skin contact may cause dermatitis.

## 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. Low mobility in most ground conditions.

### Persistence and Degradation:

Non bio-degradable - reacts with atmospheric and dissolved carbon dioxide to form calcium carbonate (chalk).

### Bioaccumulative Potential:

The product has no potential to accumulate in the food chain.

## 13 Disposal Considerations:

### Waste Disposal:

Dispose of only at an approved licensed waste disposal site.

## 14 Transport Information:

**ADR (Road) Classification:** Not classified.

**RID (Rail) Classification:** Not classified.

**IMDG (Sea) Classification:** Not classified. (See section 10 for Segregation)

**IATA (Air) Classification:** Not classified.

## 15 Regulatory Information:

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. Statutory Instrument 2002 No. 1689

**Classification for Conveyance:** None

**Classification for supply:** Irritant

### Safety Phrases:

S2 Keep out of reach of children.

S22 Do not breathe dust.

S25 Avoid contact with eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37/39 Wear suitable gloves.

### Risk Phrases:

R37/38 Irritating to respiratory system and skin.

R41 Risk of serious damage to the eyes.

## 16 Other Information:

### Safety Data:

SD10 Chalk

SD20 Quicklime

SD21 Birchgro

SD30 Ultralime Hydrated Lime

SD31 Birchsorb

SD40 Aqualime

SD60 Micromag

SD70 Hydraulic Lincolnshire Lime

Prepared in accordance with Directive 2001/58/EC & UK Statutory Regs (CHIP 3)

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