

# WHITE PEAK FINEST BUXTON LIME PUTTY

## CHEMICAL SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

Product name: "White Peak" Finest Buxton Lime Putty  
Other names: calcium hydroxide, slaked lime.

Used as a binder in mortars and plasters.

Buxton Lime Industries, Tunstead Quarry,  
Buxton, Derbyshire, England. SK17 8TG

Tel 00 44 (0)1298 768555

In an emergency: Dial 999

For specialist advice  
(transport emergency) 00 44 (0)1298 27500

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Paste of ca.50% Calcium Hydroxide  $\text{Ca}(\text{OH})_2$  in water. Small quantities of calcium carbonate, magnesia and trace elements

Hazardous Ingredient - calcium hydroxide.  
R38, R41. See detail under sections 11 and 15.

CAS No: 1305-62-0  
EINECS No: 215-137-3

### 3. HAZARD IDENTIFICATION

Irritating to eyes and skin. Risk of serious damage to eyes. May cause burns.

### 4. FIRST AID MEASURES

Skin Contact - An irritant; may cause burns. Remove contaminated clothing. Wash immediately with plenty of water.

Eye Contact - Causes painful irritation and may cause serious damage to eyes unless immediate treatment is given. SPEED IS ESSENTIAL. Remove particles with cotton wool bud, irrigate with eyewash or clean water until medical help is obtained. Obtain medical attention as soon as possible.

Inhalation - Irritating to the respiratory tract in high concentration. Remove from exposure and keep warm and at rest. Irrigate nose and throat with water for at least 20 minutes.

Ingestion - Unlikely to cause any reactions. Larger doses may irritate gastrointestinal tract. Do not induce vomiting, wash out mouth with water and give copious quantities of water to drink.

#### Further medical treatment

Symptomatic, if necessary. No known delayed effects. Prolonged or repeated contact with skin may result in more severe irritation or dermatitis.

It is advisable to ensure that eyewash facilities are readily available where Lime Putty is handled.

## 5. **FIRE FIGHTING MEASURES**

Non combustible and inhibits the spread of flame. No special fire fighting procedure, extinguisher media or explosion hazard is identified.

## 6. **ACCIDENTAL RELEASE MEASURES**

Spillages. Contain and absorb spillage using earth or sand. Transfer to containers for disposal (using appropriate protective clothing - see Section 8). 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**

7.1. Handling. Avoid contact with skin and eyes. In the event of spillage see section 6.

7.2. Storage. Should be stored in a cool environment. Bulk storage should be in a purpose-built vessel. Keep away from strong acids.

## 8. **EXPOSURE CONTROL/PERSONAL PROTECTION**

8.1 Workplace exposure limit standard:  
5 mg/m<sup>3</sup> (8 hr TWA) as calcium hydroxide.

8.2 Handling systems should preferably be enclosed, however mist or dust in the atmosphere is unlikely due to physical nature of material

Wear suitable respiratory protection equipment if exposure to atmospheric mist levels above the workplace exposure standard is likely. Use approved dust respirators to EN149 category FFP2, or air-stream helmet for heavy exposure.

Rubber gloves provide suitable hand protection.

Wide vision full goggles to BS EN 166 grade 4B, with anti-mist for eye protection.

Long sleeved waterproof overalls, close fitting at openings. Boots that resist water penetration.

## 9. **PHYSICAL AND CHEMICAL PROPERTIES**

|                  |   |                          |
|------------------|---|--------------------------|
| Form             | - | viscous paste like solid |
| Colour           | - | white or off-white       |
| Odour            | - | faint "earthy" odour     |
| pH               | - | 12.4                     |
| Solubility       | - | N/A                      |
| Vapour pressure  | - | 17.5 mm Hg at 20°C       |
| Relative density | - | 1.3 – 1.4                |
| Boiling point    | - | 100°C                    |

## 10. **STABILITY AND REACTIVITY**

10.1 Stable upto 100°C. See section 10.3.

10.2 Materials to avoid:  
Reacts vigorously with strong acids. Attacks aluminium, lead, tin, zinc and brass.

10.3 Hazardous decomposition products:  
Boils at 100°C to give dry calcium hydroxide (hydrated lime). Decomposes with loss of water at approximately 580°C to form calcium oxide (quicklime).

## 11. **TOXICOLOGICAL INFORMATION**

Inhalation - High concentration of mist may be irritant to the respiratory tract.

Skin Contact - Irritant.

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**

### 12.1 Ecotoxicity

Product is considered to be non-toxic. LC50 aquatic toxicity values are >100mg/l of calcium hydroxide. Hardened / dried putty has reacted to form Calcium Carbonate, a naturally occurring earth mineral..

### 12.2 Mobility

Sparingly soluble in water to form alkaline solution. Low mobility in most ground conditions.

### 12.3 Persistence and degradation

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

### 12.4 Bioaccumulative Potential

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

## **13. DISPOSAL CONSIDERATIONS**

Disposal should be in accordance with current local and national legislation. Contaminated packaging can be incinerated.

## **14. TRANSPORT INFORMATION**

Not classified as hazardous for transport.

IMDG (Sea) Not classified

ADR (Road) Not classified

RID (Rail) Not classified

IATA (Air) Not classified

## **15. REGULATORY INFORMATION**

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

Classification for conveyance: none.

Classification for supply: Irritant.

Risk phrases - R38 Irritating to skin  
- R41 Risk of serious damage to eyes

Safety phrases - S26 In case of contact with eyes, rinse immediately with water and seek medical advice

- S37 Wear suitable gloves

- S39 and eye/face protection.

- S2 Keep out of reach of children

15.2 Workplace Exposure Limits 2005 - HSE Guidance Note EH40/2005.

WES 5 mg/m<sup>3</sup> (8 hr TWA) as calcium hydroxide.

15.3 Data Sheet prepared in accordance with Directive 2001/58/EC

## **16. OTHER INFORMATION**

Date of revisions – April 2008 (Issue 1).