



Hydrated Lime Safety Data Sheet

WESLIME

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1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name HYDRATED LIME
Supplier Name WESlime LTD.
Address Salvadora Aljendea 20
Telephone +381 63616140
Fax +381 (0) 17 71 00 102
Email office@weslime.com
Web Site www.weslime.com

Use(s) Hydrated Lime is manufactured for the stabilization of road surfaces, can also be used as a filler in asphalt to improve resistance to high temperature rutting. Hydrated Lime is supplied to the water treatment industry for softening, pH adjustment / coagulation and removal of impurities.

2. HAZARDS IDENTIFICATION

Irritating to eyes and skin. Can cause burns in the presence of moisture. It is advisable to ensure that eye wash is available when hydrated lime, natural hydraulic lime, lime putty, hydraulic lime mortar or fine lime plaster is handled.

2.1 Hazard characterization

Xi Irritant
R37/38 Irritating to respiratory system and skin R41 Risk of serious damage to eyes

2.2 Primary routes of entry

Inhalation: Yes
Skin – eyes Yes
Ingestion: No, except in accidental cases

2.3 Human health

Inhalation: Frequent inhalation of large quantities of cement dust over a long period of time increases the risk of developing lung diseases.

Eyes: Eye contact with cement (dry or wet) may cause serious and potentially irreversible injuries.

Skin: Strong alkaline solutions in contact with the skin tend to damage the nerve endings first before damaging the skin, therefore chemical burns can develop without pain being felt at the time. Hence, prolonged skin contact with wet cement, fresh concrete or mortar may cause serious burns.

2.4 Environment

Under normal use, the product is not expected to be hazardous to the environment.



4. FIRST AID MEASURES

If medical advice is sought take this safety datasheet with you.

4.1 Inhalation

Irrigate nose and throat with water for at least 20 minutes. It is advisable to seek medical attention. Remove patient from prolonged and repeated inhalation of high exposure.

4.2 Eye contact

Irrigate with water for at least 20 minutes. SEEK MEDICAL ATTENTION. SPEED IS ESSENTIAL.

4.3 Skin contact

Wash affected area immediately with plenty of water. Remove contaminated clothing. Seek medical advice if necessary.

4.4 Ingestion

Do not induce vomiting. Wash mouth with water and drink copious quantities of water.

Hydrated lime, natural hydraulic lime, lime putty, hydraulic lime mortar and fine lime plaster are not combustible. No special fire-fighting equipment is required. No extinguishing media or explosion hazard is identified.

5. FIRE FIGHTING

Hydrated lime, natural hydraulic lime, lime putty, hydraulic lime mortar and fine lime plaster are not combustible. No special fire-fighting equipment is required. No extinguishing media or explosion hazard is identified.

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|---------------------------|---|
| Flammability | Nonflammable. Does not cause dust explosions. Violent reaction with maleic anhydride, nitroethane, nitromethane, nitroparaffin, nitropropane, phosphorous and oxidants. |
| Fire and Explosion | Nonflammable. No fire or explosion hazard exists. |
| Extinguishing | Nonflammable. |
| Hazchem Code | None. |

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal protective measures Wear protective equipment as described under Heading 8 and follow the advice for safe handling and use given under Heading 7.

6.2 Environmental protection measures Avoid contamination of drains or water courses. Spillage into water courses must be alerted to the Environmental Agency.

6.3 Methods for cleaning up

Contain the spillage. Keep the material dry or allow to dry if lime putty or fine lime plaster. Act to minimize dust. Keep children away from cleanup operations.



7. HANDLING AND STORAGE

Storage Minimize contact with air and moisture. Keep separate from flammable materials and chemicals with which it might react. Store in properly designed bunkers or silos. Packed products should not be in contact with flammable materials and storage should be in masonry or concrete structures. Bags and tubs should be stacked in a safe and stable manner. Lime putty and fine lime plaster should be stored under cool, frost free conditions. This is necessary as the water in the putty/plaster freezes in temperatures below 0°C, and could lead to separation. Part used tubs should have the lids tightly sealed to prevent carbonation.

Handling When handling packed products, due regard should be paid to the risks outlined in the Manual Handling Operations Regulations. Some bags may have a small amount of lime on the outer surface. Appropriate personal protective clothing should therefore be used whilst handling. Keep dust levels to a minimum. Avoid contact with eyes and skin. Use barrier cream if necessary.

8. PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information

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| Hydrated lime and natural hydraulic lime | fine dry powder. |
| Lime putty | an aqueous suspension of calcium hydroxide. |
| Hydraulic lime mortar | powder with solids of varying sizes. |
| Fine lime plaster | an aqueous suspension of calcium hydroxide and solids of varying sizes. |

9.2 Physical data

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|---------------------|---|
| Color | white to off-white or grey |
| Odor | possible earthy odor |
| pH | 11.5 – 13 (as aqueous solution approximately 2g/liter) |
| Melting point | 5800C |
| Vapor pressure | 0mmHg at 200C |
| Bulk density | 480kg/m ³ (loose), 590kg/ m ³ (compacted) |
| Solubility in water | 1.76g/liter saturated solution at 100°C |

7. TOXICOLOGICAL INFORMATION

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|-----------------------|---|
| Acute Toxicity | No known toxicity data available for this product. |
| Eye | Irritant upon contact with dust. Over exposure may result in pain, redness, corneal burns and ulceration with possible permanent damage |
| Inhalation | Slightly corrosive. Irritating to the respiratory system causing coughing and sneezing. Over exposure may result in severe mucous membrane irritation and bronchitis. Crystalline silica (found in this product below the reportable limit) can cause silicosis (lung disease) with chronic over exposure, however due to low levels present and product application, adverse health effects are not anticipated. |
| Skin | Irritating to the skin. Contact may result in skin rash, dermatitis and possible burns. |
| Ingestion | Slightly corrosive. Ingestion may result in burns to the mouth and throat, with vomiting and abdominal pain. Due to product form, ingestion is not considered a likely exposure route. |
| Mutagenicity | Insufficient data available for this product to classify as a mutagen |

8. TRANSPORT INFORMATION

Not classified as a dangerous

Transport is by rail or road in bulk or bag form.

Drivers of trucks transporting bagged product should ensure that the bags are properly restrained.

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