

Hydraulic Lime Mortar - SAFETY DATA SHEET

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 PRODUCT IDENTIFIER

Product name: EcoRight Hydraulic Lime Mortar (all variants)

1.2 COMPOSITION OF INGREDIENTS

Hydraulic lime mortar: a mixture of aggregate and natural hydraulic lime (NHL). When mixed with water it becomes a binder for building applications (renders and mortars)

1.3 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Intended Use: Block laying, bricklaying & stonemasonry, plastering & render.

Uses advised against: None given.

Reason why uses advised against: None given.

1.4 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Supplier:

EcoRight Limited

Unit 2 Paddock Road Industrial Estate

Caversham

Reading

Berkshire

RG4 5BY

Telephone number: 0845 873 3888

Fax Number: 01189 946 9176

Email: info@ecoright.co.uk

1.4 EMERGENCY TELEPHONE NUMBER (NOT 24hrs)

Only available during office hours (English speaking): 0845 873 3888

Registered Address: Unit 2 Paddock Road Industrial Estate, Caversham, Reading, Berkshire, RG4 5BY
Tel: 01189 469 153 (head office) +44 (0)845 873 3888 (orders) 01189 946 9176 (fax). Company Reg no: 6561874.

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SECTION 2 HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF SUBSTANCE OR MIXTURE

2.1.1 Classification according to Regulation (EC) No 1272/2008

Skin Irritant (Hazard Category 2) H318

Serious Eye Damage (Hazard Category 1) H315

2.1.2 Classification according to EU Directive 67/548/EEC / 1999/45/EC

Xi; R36/38; R41

2.1.3 Additional Information

For full text of R-phrases and Hazard statements: see **SECTION 16**

2.2. LABEL ELEMENTS

Label elements according to Regulation (EC) No 1272/2008

Hazard Pictograms: GHS05



Signal Word: **Danger**

Irritant

Hazard Statements:

H318 Causes serious eye damage.

H315 Causes skin irritation.

Precautionary Statements:

P260 Do not breathe dust.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

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Safety Data Sheet



P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Information:

None required.

2.3 OTHER HAZARDS

Generates slight heat in the presence of water.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 SUBSTANCES

Not Applicable. This product is regulated as a mixture.

3.2 MIXTURES

Hazardous ingredients:

Name	CAS No	EC No	REACH Registration No.	% (weight)	Classification according to 67/548/EEC	Classification according to Regulation (EC) No 1278/2008 (CLP)
Lime (chemical), hydraulic	85117-09- 5	285-561-1	01-2119475523-36-0011	17.1%	Xi; R37/38; R41. Irritant	Skin Irrit Cat 2 (H315) Eye Damage Cat 1 (H318) STOT SE (Inh) Cat 3 (H335)

Please see section 16 for full hazard statements

SECTION 4 FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

GENERAL NOTES

Take off all contaminated clothing immediately.

INHALATION

Move exposed person to fresh air, and move source of dust where possible. Get medical attention if symptoms occur.

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SKIN CONTACT

May cause a mild burning sensation in the presence of moisture. Carefully and gently brush the contaminated area to remove traces of product. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes.

Get medical attention if symptoms occur.

EYE CONTACT

Immediately flush the contaminated eye(s) with lukewarm, flowing water for at least 15 minutes, while holding the eyelid(s) open. If contact lenses present, DO NOT delay irrigation to remove the lens, only remove if easy to do. Immediately obtain medical advice.

INGESTION

Wash out mouth with water and drink plenty of water afterwards. Never give anything by mouth to an unconscious person. DO NOT induce vomiting. If vomiting occurs naturally, have victim rinse mouth with water again.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Acute: Local pH effects are the major health hazard.

Delayed: Prolonged or repeat contact with skin may result in irritation of dermatitis. Prolonged or repeated inhalation of high dust concentrations may cause ulceration and perforation of nasal septum and pneumonitis.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

None known

SECTION 5 FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Suitable Extinguishing Media: Use carbon dioxide (CO₂), foam or dry chemical.

Unsuitable Extinguishing Media: Do not use water.

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5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

No specific hazards.

Hazardous Combustion Products: None detailed.

5.3 ADVICE FOR FIRE FIGHTERS

Fire Fighting Instructions:

Avoid generation of dust. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Flammability Properties:

Non-combustible product which inhibits the spread of the flame.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

6.1.1 For non-emergency personnel

Protective equipment: Avoid contact with eyes and protect against inhalation of dust and contact with skin. Use eye protection, gloves and suitable respirator protective equipment.

Emergency procedure: Contain the spillage. Keep material dry and vacuum, shovel or if wet pump waste into a drum and label contents for disposal. Cover area if possible to avoid unnecessary dust production.

6.1.2 For emergency responders

Avoid contact with eyes and protect against inhalation of dust and contact with skin. Use eye protection, gloves and suitable respirator protective equipment.

6.2 ENVIRONMENTAL PRECAUTIONS

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Contain the spillage. Keep material dry and vacuum, shovel or if wet pump waste into a drum and label contents for disposal. Cover area if possible to avoid unnecessary dust production.

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6.4 REFERENCE TO OTHER SECTIONS

See Sections 8 and 13.

SECTION 7 HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Avoid contact with eyes and skin. Avoid breathing dust. Handle in accordance with good industrial hygiene and safety practice. Wash hands and exposed skin immediately after handling.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store in cool, dry conditions. Minimise contact with air or moisture. Keep away from acids.

7.3 SPECIFIC END USES:

None detailed.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

8.1.1 Occupational Exposure Limit Values

Read across for calcium hydroxide as a guideline (comparative pH). No exposure limits are currently in place for hydraulic lime.

Substance	CAS No	Workplace exposure limit
		Long-term exposure limit (8-hr TWA reference period)
Calcium hydroxide	21351-79-1	5 mg.m ⁻³

Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL): No data available.

Predicted No Effect Concentration (PNEC): No data available.

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8.2 EXPOSURE CONTROLS

8.2.1 Appropriate engineering controls

Ensure adequate ventilation in work area. Minimise dust generation.

8.2.2 Individual protection measures, such as personal protective equipment

In case of insufficient ventilation wear suitable respiratory equipment. Guidance on suitable respiratory protective equipment and eye protection is provided in HSE Booklet HS(G)53: "The Selection, Use and Maintenance of Respiratory Protective Equipment - A Practical Guide". At least dust masks which comply with EN 149 which filter at least 94% of airborne particles (FFP2) should be used. Gloves are highly recommended, as is eye protection. Check with glove manufacturer for specific advice. Wash hands after handling material and before eating, drinking, and/or smoking. Routinely wash work clothing.

8.2.3 Environmental exposure controls

Avoid releasing to the environment.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

- | | |
|----------------------|--|
| (a) Physical State: | Creamy, grey or coloured particulate depending on product. |
| (b) Odour: | Faint, earthy odour |
| (c) Odour Threshold: | No data available |
| (d) pH: | 10.5 - 13 (aqueous solution of 2g/litre) |
| (e) Solubility(ies): | Slightly soluble in water (Hydraulic Lime 1760 mg/l @ 100°C) |

9.2 OTHER INFORMATION

Low chromate content according to TRGS 613.

SECTION 10 STABILITY AND REACTIVITY

10.1 REACTIVITY: Stable under ambient storage conditions

10.2 CHEMICAL STABILITY: Product is stable under normal conditions.

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- 10.3 POSSIBILITY OF HAZARDOUS REACTIONS:** No dangerous reactions known during recommended use.
- 10.4 CONDITIONS TO AVOID:** None known.
- 10.5 INCOMPATIBLE MATERIALS:** Acids.
- 10.6 HAZARDOUS DECOMPOSITION PRODUCTS:** None known.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS (Read-across data from similar material Calcium hydroxide)

Acute toxicity:

Oral toxicity:

Method	Not detailed
Read Across substance	Yes, Calcium hydroxide
Species	Rat
Routes of exposure	Oral: gavage
Endpoint	LD50
Effective Dose	7300 mg/kg bw
Exposure time	Not detailed

Inhalation toxicity:

No data available.

Dermal toxicity:

No data available.

Serious eye damage/ irritation:

Method	Not detailed
Read Across substance	Yes, Calcium hydroxide
Species	Rabbit
Routes of exposure	Eye
Dose	Neat
Result	Serious eye damage
Exposure time	1 minute

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Respiratory or skin sensitisation:

No data available.

Germ cell mutagenicity:

Method	D824 human dental pulp cells
Read Across substance	Yes, Calcium hydroxide
Species	human dental pulp cells
Dose	30, 100, 300 µM
Genotoxicity Result	Negative

Carcinogenicity: No data available.

Reproductive toxicity: No data available.

Summary of evaluation of the CMR properties:

Not considered to be a carcinogenic, mutagenic, or reproductive toxicant.

STOT-single exposure: No data available.

STOT-repeated exposure: No data available

Aspiration hazard: No data available.

Other information: No data available.

SECTION 12 ECOLOGICAL INFORMATION

The information given is based on data available for substances detailed in section 3.2 unless otherwise specified.

12.1. TOXICITY

Aquatic toxicity is a function of the alkalinity effect.

12.2 PERSISTENCE AND DEGRADABILITY

Abiotic Degradation: No data available

Physical- and photo-chemical elimination: Calcium hydroxide does not degrade by photo-oxidation

Biodegradation: Not biodegradable

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12.3 BIOACCUMULATIVE POTENTIAL

Calcium hydroxide shows no bioaccumulation effect.

12.4 MOBILITY IN SOIL

Known or predicted distribution to environmental compartments: Low mobility in moist ground conditions.

Surface tension: No data available

Adsorption/ Desorption: No data available

12.5 RESULTS OF PBT AND vPvB ASSESSMENT

This product does not contain any PBT or vPvB substances

12.6 OTHER ADVERSE EFFECTS

No adverse effects are expected.

12.7 ADDITIONAL INFORMATION

N/A

SECTION 13 DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Dispose of waste and residues in accordance with local authority requirements.

SECTION 14 TRANSPORT INFORMATION

14.1 – 14.6 This product is not regulated for carriage according to ADR/RID/ADN, IMDG, ICAO-TI/IATA-DGR

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code - Not regulated

SECTION 15 REGULATORY INFORMATION

15.2 Safety, health and environmental regulations/legislation specific for the substance or mixture

This substance is classified and labelled under European Regulation (EC) No 1272/2008 The CLP Regulations. Classification under Chemicals (Hazard Information & Packaging for supply) Regulations – CHIP 4 (2009) is also provided (includes both EU Directive 67/548/EEC Dangerous Substances Directive (DSD) and 1999/45/EC Dangerous Preparations Directive (DPD).

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15.2 CHEMICAL SAFETY ASSESSMENT

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16 OTHER INFORMATION

List of abbreviations and acronyms:

μM	Micromolar
ADN	European provisions concerning the international carriage of dangerous goods by inland waterways
ADR	European Agreement Concerning the International Carriage of Dangerous Goods by Road
bw	body weight
CAS	Chemical Abstracts Service
CHIP	Chemical (Hazard Information and Packaging) Regulations
CLP	Classification Packaging and Labelling
CMR	Carcinogenic, Mutagenic or toxic to Reproduction
DPD	Dangerous Preparations Directive
DSD	Dangerous Substances Directive
EC	European Commission/ Communities
EEC	European Economic Community
EU	European Union
g	grams
hr	hour
HSE	Health and Safety Executive
IATA	International Air Transport Association
IBC	International bulk container
IMD	International Maritime Dangerous Goods Code
kg	kilogram
l	litre
LD	Lethal Dose
m ³	cubic metre
mg	milligram
ml	millilitre
mm	millimetre
N/A	Not Applicable
PBT	Persistent, Bio accumulative and Toxic chemicals

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REAC	
H	Registration Evaluation and Authorisation of Chemicals
RID	Reglements Internationales Relatif au Transport des Marchandises Dangereuses par Chemin de Fer
STOT	Specific target organ toxicity
Tox	Toxicity
TRGS	Technical Rule 613 - substitutes, replacement and usage limits for chromate-containing cements and chromate-containing preparations
TWA	time-weighted average
vPvB	Very Persistent and Very Bio accumulative substances

Hazard abbreviations, statements and phrases

Xi	Hazard Irritant
R36/38	Irritating to eyes and skin
R41	Risk of serious damage to eyes
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

References

ECHA	European Chemicals Agency, http://echa.europa.eu/
HSE	Health and Safety Executive, http://www.hse.gov.uk/
TOXNET	Databases on toxicology, hazardous chemicals, environmental health, and toxic release http://toxnet.nlm.nih.gov/

Revisions

Nov 2014: Updated throughout for REACH/ CLP Compliance

Recommended uses and restrictions:

The data and advice given apply when the product is sold for the stated application(s).

Further information:

Above information corresponds to present knowledge and experience and should only be used as a guide. It is not a guarantee that no errors or incomplete data may be contained. © EcoRight Limited 2015

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