

SAFETY DATA SHEET (SDS) for PREMIX MORTARS

Revision Date 21/1/2015
Valid Until 01/07/2017

Version 1.0
Uncontrolled if printed

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1 Product identifier

Trade name: Ashlar Mortar
Natural Lime Mortar
Natural Finish
Prompt Mortar
Duro
Ultra
Lathrend
Tradirend
Tradimortar
Prepbond WP
Prepbond Q
Finish WP
Pure Lime Grout
Roman Stucco
Solo
Natural Stipple
Shelter Coat

1.2 Relevant identified uses of the substance and uses advised against

Identified uses

Dry mix building product to be mixed with water in accordance with the relevant TDS.

Uses advised against

All other uses advised against.

1.3 Details of the supplier of the Safety Data Sheet

Name: Lime Green Products Ltd
Address: Coates Kilns,
Stretton Road
Much Wenlock
Shropshire
TF13 6DG
Phone N°: 01952 728611
Fax N°: 01952 728361
E-mail of competent person responsible for SDS in the EU: enquire@lime-green.co.uk

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1.4 Emergency telephone number

European Emergency N°: 999 or 112

Emergency telephone at the company 01952 728611
(office hours only)

SECTION 2: HAZARD IDENTIFICATION

2.1. Classification of the substance

2.1.1. Classification according to Regulation (EC) 1272/2008

Skin irritation	2
STOT Single Exposure	3
Serious Eye Damage	1

2.1.2. Classification according to Directive 67/548/EEC

Xi: R37, R38, R41

2.2. Label elements

2.2.1. Labelling according to Regulation (EC) 1272/2008

Signal word: Danger

Hazard pictogram:



Hazard statements:

H315:	Causes skin irritation
H318:	Causes serious eye damage
H335:	May cause respiratory irritation

Precautionary statements:

P102:	Keep out of reach of children
P280:	Wear protective gloves/protective clothing/eye protection/face protection
P305+P351+P338+P310:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor
P302+P352+P333+P313:	IF ON SKIN: Wash with plenty of soap and water. If skin irritation or a rash occurs get medical advice/attention.
P362:	Take off contaminated clothing and wash before reuse.
P261:	Avoid breathing dust/spray

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P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P501: Dispose of contents/container in accordance with local regulation

2.2.2 Labelling according to Directive 67/548/EEC

Irritant



Risk Phrases R36/37/38- irritant for the eyes, respiratory tracks and skin.

R41 - risks of severe eyes lesion.

Safety Phrases

S2 keep away from children's reach

S24/25 avoid contact with skin and eyes

S26 in case of contact with the eyes wash immediately and abundantly with clean water and consult a specialist

S37 wear adequate gloves.

2.3. Other hazards

No other hazards identified.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures:

Main constituents

Those listed below, in addition to other non-hazardous impurities.

CAS number	EC number	Registration No	Identification name	Weight % content (or range)	Classification according to 67/548/EEC
1305-62-0	215-137-3	01-2119475151-45-xxxx	Calcium dihydroxide	16-44 % (w/w)	Xi: R37,R38, R41

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CAS number	EC number	Registration No	Identification name	Weight % content (or range)	Classification according to Regulation (EC) No 1272/2008 [CLP]
1305-62-0	215-137-3	01-2119475151-45-xxxx	Calcium dihydroxide	16–44 % (w/w)	<i>Eye Dam 1 H318</i> <i>Skin Irrit. 2 H315</i> <i>STOT SE 3</i> <i>(inhalation) H335</i>

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General advice

No known delayed effects. Consult a physician for all exposures except for minor instances.

Following inhalation

Move source of dust or move person to fresh air. Obtain medical attention immediately.

Following skin contact

Carefully and gently brush the contaminated body surfaces in order to remove all traces of product. Wash affected area immediately with plenty of water. Remove contaminated clothing. If necessary seek medical advice.

Following eye contact

Rinse eyes immediately with plenty of water or suitable saline solution and seek medical advice. Do not rub eyes.

After ingestion

Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Obtain medical attention.

4.2. Most important symptoms and effects, both acute and delayed

The product is not acutely toxic via the oral, dermal, or inhalation route. The substance is classified as irritating to skin and the respiratory tract, and entails a risk of serious and possibly permanent damage to the eye. There is no concern for adverse systemic effects because local effects (pH-effect) are the major health hazard.

4.3. Indication of any immediate medical attention and special treatment needed

Follow the advice given in section 4.1. When getting medical attention present this SDS.

SECTION 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

Suitable extinguishing media: The product is not combustible. Use a dry powder, foam or CO₂ fire extinguisher to extinguish the surrounding fire.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2. Special hazards arising from the substance

None

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5.3. Advice for fire fighters

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Keep dust levels to a minimum.

Keep unprotected persons away.

Wear suitable protective equipment (see section 8).

Avoid inhalation of dust.

For emergency responders

Keep dust levels to a minimum.

Keep unprotected persons away.

Wear suitable protective equipment (see section 8).

Avoid inhalation of dust.

6.2. Environmental precautions

Contain any spillage and cover area if possible to avoid unnecessary dust. Avoid uncontrolled spills to watercourses and drains (pH increase). Inform the Environment Agency or other regulatory body in the event of a large spillage into watercourses.

6.3. Methods and material for containment and cleaning up

In all cases avoid dust formation. Use suitable industrial vacuum with HEPA filters for dry product, or shovel up into containers using a light water mist to suppress dust. For wet material shovel or mop up. Always use suitable PPE.

6.4. Reference to other sections

For more information on exposure controls/personal protection or disposal considerations, please check section 8 and 13 and the annex of this safety data sheet.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Protective measures

Avoid contact with skin and eyes. Wear protective equipment (refer to section 8 of this safety data sheet). Do not wear contact lenses when handling this product. It is also advisable to have individual pocket eyewash. Keep dust levels to a minimum, taking special care when opening and mixing bags. When handling bags usual precautions should be paid to the risks outlined in the Council Directive 90/269/EEC.

Advice on general occupational hygiene

Avoid inhalation or ingestion and contact with skin and eyes. General occupational hygiene measures are required to ensure safe handling of the substance. These measures involve good personal and housekeeping practices (i.e. regular cleaning with suitable cleaning devices), no drinking, eating and smoking at the workplace. Shower and change clothes at end of work shift. Do not wear contaminated clothing at home.

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7.2. Conditions for safe storage, including any incompatibilities

The product should be stored in dry conditions. Any contact with air and moisture should be avoided. Keep away from acids. Keep out of reach of children.

7.3. Specific end use

None

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

SCOEL recommendation (SCOEL/SUM/137 February 2008; see Section 16.6):

Occupational Exposure Limit (OEL), 8 h TWA: 1 mg/m³ respirable dust of calcium dihydroxide
Short-term exposure limit (STEL), 15 min: 4 mg/m³ respirable dust of calcium dihydroxide

These values are read-across to the product in view of the anticipated equivalent local effect (pH is comparable to that of CaO and Ca(OH)₂).

8.2. Exposure controls

Generation of dust should be avoided. Appropriate protective equipment is recommended. Eye protection equipment (e.g. goggles or visors) must be worn. Additionally, face protection, protective clothing and safety shoes are required to be worn as appropriate. Please check the relevant exposure scenario, given in the Appendix/available via your supplier.

8.2.1. Individual protection measures, such as personal protective equipment

Eye/face protection

Do not wear contact lenses. Wear tight fitting goggles with side shields, or wide vision full goggles. It is also advisable to have individual pocket eyewash.

Skin protection

Since lime is classified as irritating to skin, dermal exposure has to be minimised as far as technically feasible. The use of protective gloves (nitrile), protective standard working clothes fully covering skin, full length trousers, long sleeved overalls, with close fittings at openings and shoes resistant to caustics and avoiding dust penetration are required.

Respiratory protection

Local ventilation to keep levels below established threshold values is recommended. A suitable particle filter mask is recommended, depending on the expected exposure levels - please check the relevant exposure scenario, given in the Appendix/available via your supplier.

Thermal hazards

None

8.2.2. Environmental exposure controls

All ventilation systems should be filtered before discharge to atmosphere.

Avoid releasing to the environment.

Contain the spillage. Any large spillage into watercourses must be alerted to the Environment Agency or other regulatory body.

For further detailed information, please check the Appendix of this SDS.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance:	solid, powder
Odour:	odourless
Odour threshold:	n/a
pH:	>12
Melting point:	n/a
Boiling point:	n/a
Flash point:	n/a
Evaporation rate:	n/a
Flammability:	non flammable
Explosive limits:	non explosive (
Vapour pressure:	n/a
Vapour density:	n/a
Relative density:	0.7 – 1.8 (see individual TDS)
Solubility in water:	Some components sparingly soluble
Partition coefficient:	n/a
Auto ignition temperature:	n/a
Decomposition temperature:	n/a
Viscosity:	n/a
Oxidising properties:	no oxidising properties

9.2 Other information

None

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reacts with water to form a solid mass which does not pose any hazards.

10.2. Chemical stability

Under normal conditions of use and storage, the product is stable.

10.3. Possibility of hazardous reactions

The product reacts exothermically with acids. When heated above 580 °C, calcium dihydroxide decomposes to produce calcium oxide and water. Calcium oxide reacts with water and generates heat. This may cause risk to flammable material.

10.4. Conditions to avoid

Prevent exposure to air and moisture until use.

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10.5. Incompatible materials

The product reacts exothermically with acids to form salts. In the wet, unhardened state reacts with aluminium, brass and other base metals leading to the production of hydrogen.

10.6. Hazardous decomposition products

None.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

The product has not been studied for toxicological effects. The information on toxicological effects of calcium dihydroxide and Portland cement are expected to have the same results by read across.

Acute toxicity

Oral LD₅₀ > 2000 mg/kg bw (OECD 425, test substance Ca(OH)₂, rat); the results are also applicable to lime by read-across.

Dermal no data available

Inhalation no data available

Calcium dihydroxide is not acutely toxic. An acute dermal or inhalation toxicity study with the product is considered to be scientifically unjustified.

Skin corrosion/irritation

Irritating to skin (read across)

Serious eye damage/irritation

Serious damage to the eye (eye irritation studies, *in vivo*, rabbit). (read across)

Respiratory or skin sensitisation

None of the compounds making up the main constituents or impurities, e.g. calcium dihydroxide, calcium carbonate, calcium silicate, silica dioxide and calcined clay minerals, are known to entail any sensitisation potential.

Classification for sensitisation is not warranted.

Germ cell mutagenicity

Classification for genotoxicity is not warranted.

Carcinogenicity

Classification for carcinogenicity is not warranted.

Reproductive toxicity

Classification for reproductive toxicity is not warranted.

STOT-single exposure

Irritating to the respiratory tract.(read across)

[R37, Irritating to respiratory system; STOT SE 3 (H335 – May cause respiratory irritation)].

STOT-repeated exposure

Classification of the product for toxicity upon prolonged exposure is not required.

Aspiration hazard

The product is not known to present an aspiration hazard.

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SECTION 12: Ecological Information

Read across from calcium dihydroxide

12.1. Toxicity

Acute/Prolonged toxicity to fish

LC₅₀ (96h) for freshwater fish: 50.6 mg/l (calcium dihydroxide)

LC₅₀ (96h) for marine water fish: 457 mg/l (calcium dihydroxide)

Acute/Prolonged toxicity to aquatic invertebrates

EC₅₀ (48h) for freshwater invertebrates: 49.1 mg/l (calcium dihydroxide)

LC₅₀ (96h) for marine water invertebrates: 158 mg/l (calcium dihydroxide)

Acute/Prolonged toxicity to aquatic plants

EC₅₀ (72h) for freshwater algae: 184.57 mg/l (calcium dihydroxide)

NOEC (72h) for freshwater algae: 48 mg/l (calcium dihydroxide)

Toxicity to micro-organisms e.g. bacteria

At high concentration, through the rise of temperature and pH, calcium oxide is used for disinfection of sewage sludges.

Chronic toxicity to aquatic organisms

NOEC (14d) for marine water invertebrates: 32 mg/l (calcium dihydroxide)

Toxicity to soil dwelling organisms

EC₁₀/LC₁₀ or NOEC for soil macroorganisms: 2000 mg/kg soil dw (calcium dihydroxide)

EC₁₀/LC₁₀ or NOEC for soil microorganisms: 12000 mg/kg soil dw (calcium dihydroxide)

Toxicity to terrestrial plants

NOEC (21d) for terrestrial plants: 1080 mg/kg (calcium dihydroxide)

General effect

Acute pH-effect. Although this product is useful to correct water acidity, an excess of more than 1 g/l may be harmful to aquatic life. pH-value of > 12 will rapidly decrease as result of dilution and carbonation

Persistence and degradability

Not relevant for inorganic substances

Bioaccumulative potential

Not relevant for inorganic substances

Mobility in soil

The product reacts with water and/or carbon dioxide to harden, after which it is sparingly soluble, and present a low mobility in most soils.

Results of PBT and vPvB assessment

Not relevant for inorganic substances

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Other adverse effects

No other adverse effects are identified

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product: Dispose of the product in accordance with local and national legislation. Harden unused product with water. Do not dispose of in sewers or water courses.

Unhardened	Waste Code	16 03 03
Hardened	Waste Code	16 03 04

Packaging: empty packaging and dispose of in accordance with local and national legislation. Outer protective plastic hoods are suitable for recycling.

Plastic hoods	Waste Code	15 01 02
Empty Sacks	Waste Code	15 01 06
Pallets	Waste Code	15 01 03

SECTION 14: TRANSPORT INFORMATION

The product is not classified as hazardous for transport [ADR (road), RID (rail), ICAO/IATA (air), ADN (inland waterways) and IMDG (sea)].

14.1. UN-Number	n/a
14.2. UN proper shipping name	n/a
14.3. Transport hazard class(es)	n/a
14.4. Packing group	n/a
14.5. Environmental hazards	n/a
14.6. Special precautions for user	n/a
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	n/a

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance

Authorisations:	Not required
Restrictions on use:	None
Other EU regulations:	None
National regulations:	None

15.2. Chemical safety assessment

A chemical safety assessment has been carried out for this substance.

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SECTION 16: OTHER INFORMATION

Data are based on our latest knowledge but do not constitute a guarantee for any specific product features and do not establish a legally valid contractual relationship.

16.1. Hazard Statements

H315: Causes skin irritation
H318: Causes serious eye damage
H335: May cause respiratory irritation

16.2. Precautionary Statements

P102: Keep out of reach of children
P280: Wear protective gloves/protective clothing/eye protection/face protection
P305+P351+P338+P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor
P302+P352+P333+P313: IF ON SKIN: Wash with plenty of soap and water. If skin irritation or a rash occurs get medical advice/attention.
P362: Take off contaminated clothing and wash before reuse.
P261: Avoid breathing dust/spray
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P501: Dispose of contents/container in accordance with local regulation

16.3. Risk Phrases

R36/37/38: Irritant for the eyes, respiratory tracks and skin.
R41: Risks of severe eyes lesion.

16.4. Safety Phrases

S2: Keep away from children's reach
S24/25: Avoid contact with skin and eyes
S26: In case of contact with the eyes wash immediately and abundantly with clean water and consult a specialist
S37: Wear adequate gloves

16.5. Abbreviations

EC₅₀: median effective concentration
LC₅₀: median lethal concentration
LD₅₀: median lethal dose
NOEC: no observable effect concentration
OEL: occupational exposure limit
PBT: persistent, bioaccumulative, toxic chemical
PNEC: predicted no-effect concentration
STEL: short-term exposure limit
TWA: time weighted average
vPvB: very persistent, very bioaccumulative chemical

Lime Green Products Ltd

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16.6. Key literature references

Suppliers' TDS and SDS. Anonymous, 2006: Tolerable upper intake levels for vitamins and minerals Scientific Committee on Food, European Food Safety Authority, ISBN: 92-9199-014-0 [SCF document]
Anonymous, 2008: Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL) for calcium oxide (CaO) and calcium dihydroxide (Ca(OH)₂), European Commission, DG Employment, Social Affairs and Equal Opportunities, SCOEL/SUM/137 February 2008

16.7. Revision

Version:	1.0
Supersedes:	n/a
Date:	21/1/14
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Revisions from previous:	n/a

Disclaimer

This safety data sheet (SDS) is based on the legal provisions of the REACH Regulation (EC 1907/2006; article 31 and Annex II), as amended. Its contents are intended as a guide to the appropriate precautionary handling of the material. It is the responsibility of recipients of this SDS to ensure that the information contained therein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. Information and instructions provided in this SDS are based on the current state of scientific and technical knowledge at the date of issue indicated. It should not be construed as any guarantee of technical performance, suitability for particular applications, and does not establish a legally valid contractual relationship. This version of the SDS supersedes all previous versions.

****End****