Brenntag UK & Ireland



SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

HYDRATED LIME (CALCIUM HYDROXIDE)

Version 6.0 Print Date 2012/08/28

Revision date / valid from 2012/08/28 MSDS code: MLIM100

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : HYDRATED LIME (CALCIUM HYDROXIDE)

Substance name : Calcium dihydroxide

CAS-No. : 1305-62-0 EC-No. : 215-137-3

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the : At this time we do not yet have information on identified uses.

Substance/Mixture They will be included in this safety data sheet when available.

Uses advised against : At this moment we have not identified any uses advised

against

1.3. Details of the supplier of the safety data sheet

Company : Brenntag UK & Ireland

Albion House, Rawdon Park GB LS19 7XX Leeds Yeadon

Telephone : +44 (0) 113 3879 200
Telefax : +44 (0) 113 3879 280
E-mail address : msds@brenntag.co.uk

1.4. Emergency telephone number

Emergency telephone : Emergency only telephone number (open 24 hours):

number +44 (0) 1865 407333 (N.C.E.C. Culham)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

REGULATION (EC) No 1272/2008						
Hazard class	Hazard category	Target Organs	Hazard statements			
Skin irritation	Category 2		H315			
Serious eye damage	Category 1		H318			



Specific target organ toxicity
- single exposure

Category 3
--H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Directive 67/548/EEC or 1999/45/EC				
Hazard symbol / Category of danger	Risk phrases			
Irritant (Xi)	R37/38, R41			

For the full text of the R-phrases mentioned in this Section, see Section 16.

Most important adverse effects

Human Health : See section 11 for toxicological information.

Physical and chemical : See section 9 for physicochemical information.

hazards

Potential environmental : See section 12 for environmental information.

effects

2.2. Label elements

Hazard symbols

Labelling according to Regulation (EC) No 1272/2008





Signal word : Danger

Hazard statements : H315 Causes skin irritation.

H318 Causes serious eye damage. H335 May cause respiratory irritation.

Precautionary statements

General : P102 Keep out of reach of children.

Prevention : P261 Avoid breathing dust.

P280 Wear protective gloves/ protective clothing/

eye protection/ face protection.

Response : P305 IF IN EYES:

P351 Rinse cautiously with water for several

minutes.

P310 Immediately call a POISON CENTER or

doctor/ physician.

P302 + P352 IF ON SKIN: Wash with plenty of soap and



water.

P304 + P340 IF INHALED: Remove victim to fresh air

and keep at rest in a position comfortable

for breathing.

Disposal : P501 Dispose of contents/ container in

accordance with the local regulations.

Hazardous components which must be listed on the label:

· Calcium dihydroxide

2.3. Other hazards

For Results of PBT and vPvB assessment see section 12.5. Harmful effects to aquatic organisms due to pH-shift.

Section 3: Composition/information on ingredients

3.1. Substances

Haza	ardous components	Amount [%]	Classifi (REGULATION (Ed Hazard class / Hazard category		Classification (67/548/EEC)
Calcium dihy CAS-No. EC-No. Registration	/droxide : 1305-62-0 : 215-137-3 : 01-2119475151-45-xxxx	<= 100	Skin Irrit.2 Eye Dam.1 STOT SE3	H315 H318 H335	Xi; R37/38-R41

For the full text of the R-phrases mentioned in this Section, see Section 16. For the full text of the H-Statements mentioned in this Section, see Section 16.

Section 4: First aid measures

4.1. Description of first aid measures

General advice : Take off all contaminated clothing immediately.

If inhaled : Move to fresh air. If unconscious place in recovery position and

seek medical advice.

In case of skin contact : Wash off immediately with plenty of water. If skin irritation

persists, call a physician.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 10 minutes. Remove contact lenses. Consult a

physician.



If swallowed : Clean mouth with water and drink afterwards plenty of water.

Obtain medical attention.

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

> : See Section 11 for more detailed information on health effects Symptoms

> > and symptoms.

Effects : See Section 11 for more detailed information on health effects

and symptoms.

Indication of any immediate medical attention and special treatment needed

: No information available. Treatment

Section 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing

media

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

None known.

Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: The product itself does not burn.

5.3. Advice for firefighters

Special protective

equipment for firefighters

Further information

: Use personal protective equipment.

: Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : For personal protection see section 8.

6.2. Environmental precautions

Environmental

: Do not flush into surface water or sanitary sewer system.

precautions

Methods and materials for containment and cleaning up

containment and cleaning

up

Methods and materials for : Use mechanical handling equipment. Avoid dust formation. This material and its container must be disposed of as

hazardous waste.



6.4. Reference to other sections

See Section 1 for emergency contact information.

See Section 8 for information on personal protective equipment.

See Section 13 for waste treatment information.

Section 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling : Handle in accordance with good industrial hygiene and safety

> practice. Avoid contact with skin, eyes and clothing. Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed. Emergency eye wash fountains and emergency showers should be available in the immediate

vicinity.

Hygiene measures : Take off all contaminated clothing immediately. Smoking, eating

and drinking should be prohibited in the application area. Wash

hands before breaks and at the end of workday.

7.2. Conditions for safe storage, including any incompatibilities

areas and containers

Requirements for storage : Keep tightly closed in a dry and cool place. Product is

hygroscopic. Keep away from acids.

7.3. Specific end use(s)

Specific use(s) : No information available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Predicted No Effect Concentration (PNEC)

Water 0.49 mg/l

Soil 1080 mg/l

8.2. **Exposure controls**

Appropriate engineering controls

Provide for good ventilation. Avoid dusting. Use mechanical ventilation at dusting.

Personal protective equipment

Respiratory protection

Advice : In case of insufficient ventilation, wear suitable respiratory

equipment.

Recommended Filter type:

Particle filter:P1



Hand protection

Advice : Protective gloves should be replaced at first signs of wear.

Choose right chemical protection as:

Material : Nitrile rubber Break through time : > 480 min

Eye protection

Advice : Safety glasses

Skin and body protection

Advice : Wear suitable protective clothing.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form : powder

Colour : white

Odour : odourless

Odour Threshold : no data available

pH : 12 - 13

saturated aqueous solution

Melting point/range : > 450 °C

Boiling point : no data available

Flash point : no data available

Evaporation rate : no data available

Flammability (solid, gas) : no data available

Upper explosion limit : no data available

Lower explosion limit : no data available

Vapour pressure : no data available

Relative vapor density : no data available

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Density : 2.4 g/cm3

Water solubility : ca. 1.85 g/l

Partition coefficient: n-octanol/water : no data available

Auto-ignition temperature : no data available

Thermal decomposition : no data available

Viscosity, dynamic : no data available

Explosivity : no data available

Oxidizing properties : not oxidising

9.2. Other information

No further information available.

Section 10: Stability and reactivity

10.1. Reactivity

Advice : Stable under recommended storage conditions.

10.2. Chemical stability

Advice : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : Reacts exothermic with acids.

10.4. Conditions to avoid

Conditions to avoid : Product is hygroscopic.

10.5. Incompatible materials

Materials to avoid : Keep away from strong acids.

10.6. Hazardous decomposition products

Hazardous decomposition : No information available.

products

Section 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity



Oral

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Inhalation

Inhalation may cause pain and cough.

Irritation

Skin

Result : Skin contact may cause irritation. Prolonged and repeated

exposure may cause pain and redness.

Eyes

Result : May cause strong pain.

Risk for permanent damage.

Component: Calcium dihydroxide CAS-No.

1305-62-0

Acute toxicity

Oral

LD50 Oral : > 2000 mg/kg (rat) (OECD Test Guideline 425)

Dermal

LD50 Dermal : > 2500 mg/kg (rabbit) (OECD Test Guideline 402)

Section 12: Ecological information

12.1. Toxicity

Component:	Calcium dihydroxide	CAS-No.		
		1305-62-0		
Acute toxicity				
Fish				
LC50	: 50.6 mg/l (Freshwater fish; 96 h)			
LC50	: 457 mg/l (Sea fish; 96 h)			



Toxicity to daphnia and other aquatic invertebrates

EC50 : 49.1 mg/l (Freshwater invertebrates; 48 h)

LC50 : 158 mg/l (Freshwater invertebrates; 96 h)

12.2. Persistence and degradability

Persistence and degradability

Biodegradability

Result : The methods for determining biodegradability are not applicable to

inorganic substances.

12.3. Bioaccumulative potential

Bioaccumulation

Result : No information available.

12.4. Mobility in soil

Mobility

Result : Because the product is practically insoluble in water the separation

will be made by filtration or sedimentation.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

Result : This substance is not considered to be persistent, bioaccumulating

nor toxic (PBT)., This substance is not considered to be very

persistent nor very bioaccumulating (vPvB).

12.6. Other adverse effects

Additional ecological information

Result : Harmful effects to aquatic organisms due to pH-shift.

Do not flush into surface water or sanitary sewer system.

Section 13: Disposal considerations

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13.1. Waste treatment methods

Product : Eliminate waste in conditions authorized by the regulations.

Store waste in containers provided for this purpose. Do not

dump in drains, water sheets or the ground.

Contaminated packaging : In accordance with local and national regulations. Dispose of

as unused product.

European Waste Catalogue Number : No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation

with the regional waste disposer.

Section 14: Transport information

Not dangerous goods for ADR, RID, IMDG and IATA.

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packaging group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

IMDG : Not applicable.

Section 15: Regulatory information

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



15.2. Chemical Safety Assessment

no data available

Section 16: Other information

Full text of R-phrases referred to under sections 2 and 3.

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

Full text of H-Statements referred to under sections 2 and 3.

H315 Causes skin irritation.

H318 Causes serious eye damage. H335 May cause respiratory irritation.

|| Indicates updated section.

The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship.

The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text