

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



31804 Pit Lime, from Spain

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Revised edition: 15.05.2019

Version: 1

Printed: 13.04.2022

1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1. Product Identifier

Product Name: Pit Lime, from Spain

Article No.: 31804

UFI: --

1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

Identified uses:
Industry mortar, rendering, lime paints.

Uses advised against:

1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

Company: Kremer Pigmente GmbH & Co. KG

Address: Hauptstr. 41-47, 88317 Aichstetten, Germany

Tel./Fax.: Tel +49 7565 914480, Fax +49 7565 1606

Internet: www.kremer-pigmente.com

E-Mail: info@kremer-pigmente.com

Importer: --

1.4. Emergency No.

Emergency No.: +49 7565 914480 (Mon-Fri 8:00 - 17:00)

1.4.2 Poison Center:

2. Hazards Identification

2.1. Classification of the Substance or Mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)

Skin irritation, hazard category 2
Serious eye damage, hazard category 1
Specific Target Organ Toxicity (single exposure), hazard category 3

H315 Causes skin irritation.

Cat.: 2

H318 Causes serious eye damage.

Cat.: 1

H335 May cause respiratory irritation.

Cat.: 3

Possible Environmental Effects:

See Section 12.

2.2. Label Elements

Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)

Hazard designation:

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GHS07

Signal word:

Danger

Hazard designation:

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

Safety designation:

P102	Keep out of reach of children.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P280	Wear protective gloves/ clothing/ eye/ face protection.
P302+P352	If on skin: Wash with soap and water.
P304+P340	If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses and continue rinsing.
P310	Immediately call a poison center or physician.
P501	Dispose of contents/ container according to regional, national and international regulations.

Hazardous components for labelling:

2.3. Other Hazards

3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

Chemical Characterization: Hydrolyzed calcium oxide
Pit lime is a preparation of approximately 50 % calcium hydroxide $\text{Ca}(\text{OH})_2$ in water.

Information on Components / Hazardous Ingredients:

Calcium hydroxide, $\text{Ca}(\text{OH})_2$ (H315-318-335); REACH Reg. No. 01-2119475151-45-0005	40 - 70 %	CAS-Nr: 1305-62-0 EINECS-Nr: 215-137-3 EC-Nr:
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Additional information:

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

Seek medical attention in case of complaints.

After inhalation:

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Supply fresh air. Consult physician if symptoms persist.

After skin contact:

*Remove contaminated clothing immediately.
Wash off immediately with soap and plenty of water and rinse thoroughly.*

After eye contact:

*Consult a physician immediately.
Rinse open eye for several minutes under running water.*

After ingestion:

*Do not induce vomiting. Consult physician immediately.
Drink plenty of water.*

4.2. Most important Symptoms and Effects, both Acute and Delayed

Symptoms:

*Skin contact: can cause skin irritation.
Inhalation: can cause irritation of the respiratory tract.
Eye contact: causes serious eye damage.
Adverse systemic effects are not expected since the pH effect is the major health hazard.*

Effects:

No further information available.

4.3. Indication of any Immediate Medical Attention and special Treatment needed

Treatment:

Treat symptomatically.

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

*Product itself does not burn.
Foam, CO₂, dry extinguishing powder.*

Unsuitable extinguishing media:

None known.

5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

*Product is not flammable.
The substance is not flammable and non-combustible, it inhibits the spread of flames.*

5.3. Advice for Firefighters

Protective equipment:

*Wear self-contained respiratory protective device.
Wear suitable protective clothing.*

Further information:

Not combustible.

6. Accidental Release Measures

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6. 1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

*Ensure adequate ventilation.
Wear protective clothing.
Avoid contact with skin, eyes and clothing.*

6. 2. Environmental Precautions

Environmental precautions:

*Prevent spillage of large quantities into drains and surface waters.
Contact local authorities if product pollutes soil or vegetation.*

6. 3. Methods and Material for Containment and Cleaning Up

Methods and material:

Take up mechanically and collect in suitable containers for disposal.

6. 4. Reference to other Sections

*Protective clothing, see Section 8.
See Section 13 for information on disposal.*

7. Handling and Storage

7. 1. Precautions for Safe Handling

Instructions on safe handling:

*Wear adequate protective clothing (see para. 8).
It is recommended to provide a portable eye rinsing bottle.*

Hygienic measures:

*Avoid contact with eyes and skin.
Do not eat or drink during work. Do not smoke.*

7. 2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

*Keep container tightly closed
Keep product away from children.*

Requirements for storage areas and containers:

*Store the product in the original container.
Unsuitable container material: aluminium.*

Information on fire and explosion protection:

*Do not store together with: foodstuffs, beverages and feed.
Do not store together with acids and nitro compounds.*

Storage class:

Further Information:

7. 3. Specific End Use(s)

Further information:

8. Exposure Controls/Personal Protection

8. 1. Parameters to be Controlled

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Parameters to be controlled (DE):

TLV: 1 mg/m³ (inhalable fraction)

Parameters to be controlled:

TLV (A): 2 mg/m³ (inhalable fraction)

TLV (CH): 5 mg/m³ (inhalable fraction)

Derived No-Effect Level (DNEL):

4 mg/m³ (worker/consumer, inhalation, short-term exposure - local effects)

1 mg/m³ (worker/consumer, inhalation, long-term exposure - local effects)

Predicted No-Effect Concentration (PNEC):

Fresh water: 0.49 mg/l

Sea water: 0.32 mg/l

Sewage treatment system (STP): 3 mg/l

Soil: 1080 mg/kg (dw)

Additional Information:

8.2. Exposure Controls

Technical protective measures:

Provide adequate ventilation/exhaust system.

Personal Protection

General protective measures:

Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.

Respiratory protection:

Required in case of insufficient ventilation.

Hand protection:

Protective gloves (EN 374)

Protective glove material:

Nitrile rubber (NBR)

Eye protection:

Safety glasses (EN 166)

It is recommended to provide a portable eye rinsing bottle.

Body protection:

Protective suit with long sleeves.

Environmental precautions:

*Prevent contamination of open water ways and sewage system.
Avoid contamination of ground water.*

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Form: powder

Color: whitish

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Odor:	odorless
Odor threshold:	no information available
pH-Value:	12.4 (20°C)
Melting temperature:	> 450°C
Boiling temperature:	
Flash point:	not applicable
Evaporation rate:	not applicable
Flammability (solid, gas):	not flammable
Upper explosion limit:	no information available
Lower explosion limit:	no information available
Vapor pressure:	not applicable
Vapor density:	not relevant
Density:	2.24 g/cm ³
Solubility in water:	1844.9 mg/l (EC A.6)
Coefficient of variation (n-Octanol/Water):	not applicable
Auto-ignition temperature:	No relative auto-ignition temperature below 400°C (EU A.16 Method)
Decomposition temperature:	When heated above 580°C, calcium hydroxide decomposes to calcium oxide (CaO) and water (H ₂ O).
Viscosity, dynamic:	not determined
Explosive properties:	Product does not present an explosion hazard.
Oxidizing properties:	not oxidizing
Bulk density:	not applicable

9.2. Further Information

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Solubility in solvents:

Viscosity, kinematic:

Burning class:

Solvent content:

Solid content:

Particle size:

Other information:

No further information.

10. Stability and Reactivity

10.1. Reactivity

Calcium hydroxide dissociates into calcium cations and hydroxyl anions in aqueous media.

10.2. Chemical Stability

Stable if used according to specifications.

10.3. Possibility of Hazardous Reactions

Exothermic reaction with acids.

10.4. Conditions to Avoid

Conditions to avoid:

No further information available.

Thermal decomposition:

When heated above 580°C, calcium hydroxide decomposes to calcium oxide (CaO) and water (H₂O).

10.5. Incompatible Materials

Reacts with acids: heat development.

10.6. Hazardous Decomposition Products

None known.

10.7. Further Information

11. Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity

Calcium hydroxide is not toxic.

LD50, oral:

Calcium hydroxide: LD50: > 2000 mg/kg bw (rat; OECD 425)

LD50, dermal:

Calcium hydroxide: LD50: > 2500 mg/kg bw (rabbit; OECD 402)

LC50, inhalation:

No information available.

Primary effects

Irritant effect on skin:

Irritating (rabbit)

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Irritant effect on eyes:

Irritating effect (rabbit).

Inhalation:

No information available.

Ingestion:

No information available

Sensitization:

No sensitizing effects known.

Mutagenicity:

*Not mutagenic (OECD 471, Bacterial Reverse Mutation Test)
In vitro Mammalian Cell Gene Mutation Test (OECD 476): negative*

Reproductive toxicity:

Not considered to be toxic to reproduction.

Carcinogenicity:

No cancerogenic effect (rat).

Teratogenicity:

No information available.

Specific target organ toxicity (STOT):

Single exposure: From the data from studies in humans it can be concluded that Ca(OH)₂ irritates the respiratory tract. As recommended in the SCOEL (Anonymus, 2008), calcium dihydroxide is classified as irritating to the respiratory tract (R37, Irritating to the resp. system; STOT SE 3 (H335)). By analogy, these results can be applied for the product itself.

Repeated exposure: no toxicological effects.

Additional toxicological information:

Aspiration hazard: not applicable

12. Ecological Information

12.1. Aquatic Toxicity

Fish toxicity:

*Calcium hydroxide: LC50: 457 mg/l (96h; seawater fish)
Calcium hydroxide: LC50: 50.6 mg/l (96h; freshwater fish)*

Daphnia toxicity:

*Calcium hydroxide: LC50: 158 mg/l (96h; Daphnia magna)
Calcium hydroxide: EC50: 49.1 mg/l (48h; Daphnia magna)
Calcium hydroxide: NOEC: 32 mg/l (14d)*

Bacteria toxicity:

At high concentrations, the product causes an increase of the pH value. This effect is used for the purification of sewage sludge.

Toxicity to soil dwelling organisms:

Calcium hydroxide: EC10/LC50/NOEC: 2000 mg/kg soil dw (macro-organisms)

Calcium hydroxide: EC10/LC50/NOEC: 12000 mg/kg soil dw (micro-organisms)

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Algae toxicity:

Calcium hydroxide: EC50: 184.57 mg/l (72h, freshwater algae)

Calcium hydroxide: NOEC: 48 mg/l (72h, freshwater algae)

12. 2. Persistency and Degradability

Inorganic substance. Biological degradability is not affected.

12. 3. Bioaccumulation

Bioaccumulation is not to be expected.

12. 4. Mobility

Weak solubility and mobility.

12. 5. Results of PBT- und vPvP Assessment

Inorganic substance: does not comply with the criteria for the classification as PBT or vPvB.

12. 6. Other Adverse Effects

Water hazard class:

1, slightly hazardous

Do not allow undiluted product or large quantities of it to reach ground water, waterways or sewage system.

Behaviour in sewage systems:

Further ecological effects:

Harmful to aquatic organisms caused by a pH shift.

Acute pH Effect. Although this product can be used to neutralize acidified water, water organisms can be damaged when 1 g/l is exceeded. The pH value > 12 is rapidly reduced due to dilution and carbonization.

AOX Value:

13. Disposal Considerations

13. 1. Waste Treatment Methods

Product:

Dispose of product residues according to the waste disposal guidelines 2008/98/EC as well as according to official national and local regulations.

European Waste Code (EWC):

Uncleaned packaging:

Dispose of according to official local regulations.

Waste Code No.:

14. Transport Information

14. 1. UN Number

ADR, IMDG, IATA

14. 2. UN Proper Shipping Name

ADR/RID:

No hazardous goods according to ADR / DOT (US) (land transportation).

IMDG/IATA:

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Not hazardous goods

14.3. Transport Hazard Classes

ADR Class:

not applicable

Hazard no.:

Classification code:

Tunnel restriction code:

IMDG Class (sea):

not applicable

Hazard no.:

EmS No.:

IATA Class:

Hazard no.:

14.4. Packaging Group

ADR/RID:

not applicable

IMDG:

IATA:

14.5. Environmental Hazards

None

14.6. Special Precautions for User

none known

14.7. Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code

not applicable

14.8. Further Information

15. Regulatory Information

15.1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

Water hazard class:

1, slightly hazardous for water (German Regulation)

Local regulations on chemical accidents:

Employment restrictions:

Restriction and prohibition of application:

Technical instructions on air quality:

15.2. Chemical Safety Assessment

This product contains substances for which a Chemical Safety Assessment has been carried out.

15.3. Further Information

Seveso Directive: not regulated / not applicable

Regulation (EC) 850/2004 - Persistent organic pollutants and

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amending Directive 79/117/EEC: not regulated / not applicable
Regulation (EC) 2037/2000 - Substances that Deplete the Ozone
Layer: not regulated / not applicable

16. Other Information

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.