

# Safety Data Sheet

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



## 31840 Calix Blanca NHL 3.5

Page 1

Revised edition: 16.10.2024

Version: 7

Printed: 06.02.2026

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

1.1. Product Identifier

*Product Name:* Calix Blanca NHL 3.5

*Article No.:* 31840

*UFI:*

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

*Identified uses:*  
Coating, mortar, injection grout

*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

*EMail:* 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:*

next page: 2

# Safety Data Sheet

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



## 31840 Calix Blanca NHL 3.5

Page 2

Revised edition: 16.10.2024

Version: 7

Printed: 06.02.2026



GHS05-2



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.  
P332+P313 If skin irritation occurs: Get medical attention.  
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:* Natural hydraulic lime is produced by calcination of limestone more or less clayish or siliceous with reduction to powder by extinction, with or without grinding.

*Information on Components / Hazardous Ingredients:*

Natural hydraulic lime (H315-318-335); REACH 100 %  
Reg. No. 01-2119475523-36

CAS-Nr: 85117-09-5  
EINECS-Nr: 285-561-1  
EC-Nr:

*Additional information:*

### 4. First Aid Measures

4. 1. Description of the First Aid Measures

*General information:*

next page: 3

# Safety Data Sheet

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



## 31840 Calix Blanca NHL 3.5

Page 3

Revised edition: 16.10.2024

Version: 7

Printed: 06.02.2026

---

*Seek medical attention in case of complaints.*

*After inhalation:*

*Supply fresh air and keep patient calm.*

*Remove from the danger zone and lay on the floor. Keep the victim warm and calm. If unconscious, place in the recovery position and seek medical advice. Artificial respiration and/or oxygen administration may be necessary. Administer oxygen if breathing is difficult. If breathing is difficult or has stopped, initiate artificial respiration.*

*After skin contact:*

*Remove contaminated clothing immediately.*

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

*If symptoms persist, consult a physician.*

*After eye contact:*

*Consult a physician immediately.*

*Rinse the eye under running water for 10-15 min. with the eyelids wide open, protecting the uninjured eye.*

*After ingestion:*

*Do not induce vomiting. Consult physician immediately.*

*Rinse mouth with plenty of water.*

4. 2. Most important Symptoms and Effects, both Acute and Delayed

*Symptoms:*

*Natural hydraulic lime 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 damage to the eye. There is no concern for adverse systemic effects because local effects (pH-effect) are 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, CO<sub>2</sub>, dry extinguishing powder.*

*Unsuitable extinguishing media:*

*Water*

5. 2. Special Hazards arising from the Substance or Mixture

*Special hazards:*

*Product is not flammable.*

*The combustion produces a dense smoke.*

next page: 4

# Safety Data Sheet

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



## 31840 Calix Blanca NHL 3.5

Page 4

Revised edition: 16.10.2024

Version: 7

Printed: 06.02.2026

### 5.3. Advice for Firefighters

#### *Protective equipment:*

*Wear self-contained respiratory protective device.*

*Wear suitable protective clothing.*

#### *Further information:*

*Prevent fire extinguishing water from contaminating surface water or the ground water system.*

## 6. Accidental Release Measures

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

#### *Personal precautions:*

*Ensure adequate ventilation.*

*Avoid formation of dust.*

*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).*

*Provide adequate ventilation.*

*Avoid formation of dust. Do not inhale dust.*

#### *Hygienic measures:*

*Avoid contact with eyes and skin.*

*Do not eat or drink during work. Do not smoke.*

*Remove contaminated clothing and shoes and clean thoroughly before reuse.*

*Facilities storing or utilizing this material should be equipped with an eyewash and shower facility.*

### 7.2. Conditions for Safe Storage, including any Incompatibilities

#### *Storage conditions:*

*Keep container tightly closed*

*Protect product from humidity.*

next page: 5

# Safety Data Sheet

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



## 31840 Calix Blanca NHL 3.5

Page 5

Revised edition: 16.10.2024

Version: 7

Printed: 06.02.2026

---

*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.  
Do not store together with organic substances.*

*Storage class:*

*Further Information:*

7. 3. Specific End Use(s)

*Further information:*

---

## 8. Exposure Controls/Personal Protection

8. 1. Parameters to be Controlled

*Parameters to be controlled (DE):*

*TLV: 1 mg/m<sup>3</sup> (inhalable fraction)*

*Parameters to be controlled:*

*TLV (A): 2 mg/m<sup>3</sup> (inhalable fraction)*

*TLV (CH): 5 mg/m<sup>3</sup> (inhalable fraction)*

*Derived No-Effect Level (DNEL):*

*4 mg/m<sup>3</sup> (worker/consumer, inhalation, short-term exposure - local effects)*

*1 mg/m<sup>3</sup> (worker/consumer, inhalation, long-term exposure - local effects)*

*PNEC (Predicted No-Effect Concentration):*

*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.*

*Wear protective clothing. Change work clothing daily before leaving workplace. Do not wear contaminated work clothing out of*

next page: 6

# Safety Data Sheet

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



## 31840 Calix Blanca NHL 3.5

Page 6

Revised edition: 16.10.2024

Version: 7

Printed: 06.02.2026

---

*the workplace.*

*Respiratory protection:*

*Required in case of insufficient ventilation.*

*Hand protection:*

*Protective gloves (EN 374)*

*Protective glove material:*

*Natural rubber (NR), polyvinyl chloride (PVC).*

*Eye protection:*

*Safety glasses (EN 166)*

*It is recommended to provide a portable eye rinsing bottle.*

*Body protection:*

*Protective clothing fully covering skin, full length trousers, long sleeved overalls, with close fittings at openings and shoes resistant to caustics and avoiding dust penetration.*

*Protective clothing should be laundered regularly.*

*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:* bright gray

*Odor:* odorless

*Odor threshold:*  
no information available

*pH-Value:* 12 - 13

*Melting temperature:* > 450°C

*Boiling temperature:*  
not applicable

*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

next page: 7

# Safety Data Sheet

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



## 31840 Calix Blanca NHL 3.5

Page 7

Revised edition: 16.10.2024

Version: 7

Printed: 06.02.2026

*Vapor pressure:*

*not applicable*

*Vapor density:*

*Density:*

*2.66 g/cm<sup>3</sup> (20°C)*

*Solubility in water:*

*1.5 g/l (20°C)*

*Coefficient of variation (n-Octanol/Water):*

*not applicable*

*Auto-ignition temperature:*

*not determined*

*Decomposition temperature:*

*When heated above 580°C, calcium hydroxide decomposes to calcium oxide (CaO) and water (H<sub>2</sub>O).*

*Viscosity, dynamic:*

*not determined*

*Explosive properties:*

*Product presents an explosion hazard.*

*Oxidizing properties:*

*not oxidizing*

*Bulk density:*

*not applicable*

### 9.2. Further Information

*Solubility in solvents:*

*Viscosity, kinematic:*

*Burning class:*

*Solvent content:*

*Solid content:*

*Particle size:*

*Average particle size: 20 - 30 %: < 5 µm*

*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.*

next page: 8

# Safety Data Sheet

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



## 31840 Calix Blanca NHL 3.5

Page 8

Revised edition: 16.10.2024

Version: 7

Printed: 06.02.2026

### 10.4. Conditions to Avoid

*Conditions to avoid:*

*Avoid humidity.*

*Thermal decomposition:*

*When heated above 580°C, calcium hydroxide decomposes to calcium oxide (CaO) and water (H<sub>2</sub>O).*

### 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 Hazard Classes as defined in Regulation (EC) No. 1272/2008

*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:*

*Calcium hydroxide irritates the skin (in vivo, rabbit)*

*Irritant effect on eyes:*

*Calcium hydroxide can cause serious eye damage (in vivo, 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:*

next page: 9

# Safety Data Sheet

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



## 31840 Calix Blanca NHL 3.5

Page 9

Revised edition: 16.10.2024

Version: 7

Printed: 06.02.2026

---

*No cancerogenic effect (rat).*

*Teratogenicity:*

*No information available.*

*Specific target organ toxicity (STOT):*

*Single exposure:*

*Based on human data (as SCOEL recommendation) and by read-across from similar substances (calcium oxide (CaO) and calcium hydroxide (Ca(OH)<sub>2</sub>)), natural hydraulic lime is classified as irritating to the respiratory system [STOT SE 3 (H355 - May cause respiratory irritation)].*

*Repeated exposure:*

*Toxicity of calcium via the oral route is addressed by upper intake levels (UL) for adults: UL = 2500 mg of Ca / d, corresponding to 36 mg/kg bw/d (70 kg person) for calcium (data SCF: Scientific Committee on Food).*

*Toxicity of natural hydraulic lime via the dermal route is not considered as relevant in view of the anticipated insignificant absorption through skin and due to local irritation as the primary health effect (pH shift).*

*Toxicity of natural hydraulic lime via inhalation (local effect, irritation of mucous membranes) is addressed by an 8h TWA determined for CaO and Ca(OH)<sub>2</sub> by the Scientific Committee on Occupational Exposure limits (SCOAEL) of 1 mg/m<sup>3</sup> respirable dust (read-across from CaO and Ca(OH)<sub>2</sub>; see Section 8.1).*

*Therefore, classification of natural hydraulic lime for toxicity upon prolonged exposure is not required.*

*Aspiration hazard:*

*No risk of aspiration.*

11. 2. Information on other Hazards

*Endocrine Disrupting Properties: no information available.*

---

## 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)*

next page: 10

# Safety Data Sheet

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



## 31840 Calix Blanca NHL 3.5

Page 10

Revised edition: 16.10.2024

Version: 7

Printed: 06.02.2026

---

### *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

*Calcium dihydroxide reacts with moisture and/or air carbon dioxide to form calcium carbonate, respectively, which is only slightly soluble and therefore have low mobility in most soils.*

### 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. Endocrine Disrupting Properties

### 12. 7. 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. Leave chemical in original containers.*

#### *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

next page: 11

# Safety Data Sheet

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



## 31840 Calix Blanca NHL 3.5

Page 11

Revised edition: 16.10.2024

Version: 7

Printed: 06.02.2026

---

*ADR/RID:*

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

*IMDG/IATA:*

*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. Maritime Transport in Bulk according to IMO Instruments

*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:*

*Seveso III Directive: not applicable under Directive 2012/18/EC.*

*Employment restrictions:*

*Restriction and prohibition of application:*

*EC. REACH, Section XVII, Restrictions on the Manufacture,*

*next page: 12*

# Safety Data Sheet

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



## 31840 Calix Blanca NHL 3.5

Page 12

Revised edition: 16.10.2024

Version: 7

Printed: 06.02.2026

---

*Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles: not applicable*

*Technical instructions on air quality:*

15. 2. Chemical Safety Assessment

*A Chemical Safety Assessment has been carried out for this product.*

15. 3. Further Information

*Seveso Directive: not regulated / not applicable*

*Regulation (EC) 850/2004 - Persistent Organic Pollutants and amending Directive 79/117/EEC: not regulated / not applicable*

*Regulation (EC) 2037/2000 - Substances that Deplete the Ozone Layer: not regulated / not applicable*

*Regulation (EU) No. 2019/1148, Annex I - Restricted Explosives Precursors (upper limit value for the purpose of licensing under Article 5(3)): None of the ingredients is listed.*

---

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.*