

# Safety Data Sheet

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



## 31808 Sinter Lime Water

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Revised edition: 17.03.2020

Version: 1

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

#### 1.1. Product Identifier

*Product Name:* Sinter Lime Water

*Article No.:* 31808

#### 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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*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.
P301+P310	If swallowed: Immediately call a poison center or physician.
P302+P352	If on skin: Wash with soap and water.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses and continue rinsing.
P501	Dispose of contents/ container according to regional, national and international regulations.

*Hazardous components for labelling:*

2.3. Other Hazards

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### 3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

*Chemical Characterization:* Saturated calcium hydroxide solution.

*Information on Components / Hazardous Ingredients:*

Calcium hydroxide (H315-318-335); REACH Reg. No. 01-2119475151-45-0005

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:*

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.

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*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.*

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## 5. Fire-Fighting Measures

### 5.1. Extinguishing Media

*Suitable extinguishing media:*

*Foam, CO<sub>2</sub>, dry extinguishing powder.*

*Product itself does not burn.*

*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 suitable protective clothing.*

*Wear self-contained respiratory protective device.*

*Further information:*

*Not combustible.*

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## 6. Accidental Release Measures

### 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

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### *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.*

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### 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:*

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### 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)*

##### *Predicted No-Effect Concentration*

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(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: liquid*

*Color: whitish-beige*

*Odor: odorless*

*Odor threshold:*

*No information available.*

*pH-Value:*

*Melting temperature: 0°C (H<sub>2</sub>O)*

*Boiling temperature: 100°C (H<sub>2</sub>O)*

*Flash point:*

*not applicable*

*Evaporation rate:*

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*not applicable*

*Flammability (solid, gas):*

*not flammable*

*Upper explosion limit:*

*no information available*

*Lower explosion limit:*

*no information available*

*Vapor pressure:*

*2.3 kPa (20°C)*

*Vapor density:*

*0.62*

*Density:*

*ca. 1.3 g/ml*

*Solubility in water:*

*1844.9 mg/l (EU 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<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:*

*Other information:*

*No further information.*

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## 10. Stability and Reactivity

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10.1.	<b>Reactivity</b>	<i>Calcium hydroxide dissociates into calcium cations and hydroxyl anions in aqueous media.</i>
10.2.	<b>Chemical Stability</b>	<i>Stable if used according to specifications.</i>
10.3.	<b>Possibility of Hazardous Reactions</b>	<i>Exothermic reaction with acids.</i>
10.4.	<b>Conditions to Avoid</b>	<i>Conditions to avoid:</i>  <i>Thermal decomposition:</i>  <i>When heated above 580°C, calcium hydroxide decomposes to calcium oxide (CaO) and water (H<sub>2</sub>O).</i>
10.5.	<b>Incompatible Materials</b>	<i>Reacts with acids: heat development.</i>
10.6.	<b>Hazardous Decomposition Products</b>	<i>None known.</i>
10.7.	<b>Further Information</b>	
<b>11.</b>	<b>Toxicological Information</b>	
11.1.	<b>Information on Toxicological Effects</b>	
	<i>Acute Toxicity</i>	<i>Calcium hydroxide is not toxic.</i>
	<i>LD50, oral:</i>	<i>Calcium hydroxide: LD50: &gt; 2000 mg/kg bw (rat; OECD 425)</i>
	<i>LD50, dermal:</i>	<i>Calcium hydroxide: LD50: &gt; 2500 mg/kg bw (rabbit; OECD 402)</i>
	<i>LC50, inhalation:</i>	<i>No information available.</i>
	<i>Primary effects</i>	
	<i>Irritant effect on skin:</i>	<i>Irritating (rabbit)</i>
	<i>Irritant effect on eyes:</i>	<i>Irritating effect (rabbit).</i>
	<i>Inhalation:</i>	<i>No information available.</i>
	<i>Ingestion:</i>	<i>No information available</i>
	<i>Sensitization:</i>	<i>No sensitizing effects known.</i>
	<i>Mutagenicity:</i>	<i>Not mutagenic (OECD 471, Bacterial Reverse Mutation Test)</i> <i>In vitro Mammalian Cell Gene Mutation Test (OECD 476): negative</i>

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### *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)<sub>2</sub> 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*

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## 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)*

#### *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.*

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### 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:*

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### 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.:*

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### 14. Transport Information

#### 14.1. UN Number

*ADR, IMDG, IATA*

#### 14.2. UN Proper Shipping Name

*ADR/RID:*

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

*IMDG/IATA:*

*No hazardous goods according to IMDG.*

#### 14.3. Transport Hazard Classes

*ADR Class:*

*not applicable*

*Hazard no.:*

*Classification code:*

*Tunnel restriction code:*

*IMDG Class (sea):*

*Hazard no.:*

*EmS No.:*

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*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

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## 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 amending Directive 79/117/EEC: not regulated / not applicable*

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

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## 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.*