



BE SURE. BUILD SURE.

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## Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 13.04.2025


Version number 29 (replaces version 28)

Revision: 13.04.2025

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name** Oxal SM TK 5
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use** SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Application of the substance / the mixture** Ready-mixed mortar
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:** MC-Bauchemie Müller GmbH & Co. KG  
Am Kruppwald 1-8  
D-46238 Bottrop  
Tel.: +49(0)2041-101-0  
Fax.: +49(0)2041-101-400  
E-Mail: info@mc-bauchemie.de  
  
MC-Bauchemie AG  
Hagackerstr. 10  
CH-8953 Dietikon  
Tel.: +44-7400510  
Fax : +44-7400533
- **Informing department:** msds@mc-bauchemie.de
- **1.4 Emergency telephone number:** Tel.: +49 / (0)700 24112112 (MCR)  
Tel.: +1 872 5888271 (MCR)

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
Skin Irrit. 2 H315 Causes skin irritation.  
Eye Dam. 1 H318 Causes serious eye damage.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**  
  
GHS05
- **Signal word** Danger
- **Hazard-determining components of labelling:** Portland cement (low chromate)  
Calcium hydroxide
- **Hazard statements** H315 Causes skin irritation.  
H318 Causes serious eye damage.

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- **Precautionary statements**
  - P280 *Wear protective gloves / eye protection / face protection.*
  - P305+P351+P338 *IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*
  - P310 *Immediately call a POISON CENTER/doctor.*
  - P321 *Specific treatment (see on this label).*
  - P362+P364 *Take off contaminated clothing and wash it before reuse.*
  - P332+P313 *If skin irritation occurs: Get medical advice/attention.*
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*

### SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** *Mixture consisting of the following components.*

· **Dangerous components:**

|                                      |  |         |
|--------------------------------------|--|---------|
| CAS: 14808-60-7<br>EINECS: 238-878-4 | Quartz (SiO <sub>2</sub> )<br>substance with a Community workplace exposure limit        | 60-80%  |
| CAS: 1317-65-3<br>EINECS: 207-439-9  | Calcium carbonate<br>substance with a Community workplace exposure limit                 | 10-30%  |
| CAS: 65997-15-1<br>EINECS: 266-043-4 | Portland cement (low chromate)<br>Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335 | ≥3-<10% |
| CAS: 1305-62-0<br>EINECS: 215-137-3  | Calcium hydroxide<br>Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335              | ≥3-<5%  |

- **Additional information** *For the wording of the listed hazard phrases refer to section 16.*

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information** *For all first aid measures: observe self-protection and consult a doctor!*
- **After inhalation** *Remove people from the dusty area.*
- **After skin contact** *Remove heavily soiled clothing. Clean with plenty of soap and water.*
- **After eye contact** *Rinse for 10 minutes under running water with the eyelids open. Always consult an ophthalmologist!*
- **After swallowing** *Do NOT induce vomiting. Rinse mouth with water. Medical attention required.*

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### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **6.2 Environmental precautions:** No special measures required.
- **6.3 Methods and material for containment and cleaning up:** Collect mechanically.
- **6.4 Reference to other sections** See Section 7 for information on safe handling  
See Section 8 for information on personal protection equipment.  
See Section 13 for information on disposal.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Avoid dust formation! Avoid spraying the ready-to-use cementitious product! Avoid contact with eyes and skin! Clean hands thoroughly at the end of work and before every break! Use skin care products! Change heavily soiled clothing! Change clothes at the end of work! Apply greasy skin protection ointment before starting work and after each break. Observe work restrictions!
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** Store bags tightly closed; protect from moisture and water!  
Store containers tightly closed in a well-ventilated and well-lit room.  
Access only for specialised personnel.  
Do not store in break rooms, recreation rooms or sanitary facilities or in stairwells, corridors, escape and rescue routes, passages, passageways and confined spaces.
- **Information about storage in one common storage facility:** Combined storage bans apply from a total storage quantity of 200 kg.  
Do not store together with substances of the following LGK: 1; 6.2; 7

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Storage with substances of the following LGK is only possible under the conditions specified in TRGS 510: 4.1A; 5.1C

- Further information about storage conditions:
- Storage class

Store in a dry and frost-free place.  
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#### SECTION 8: Exposure controls/personal protection

##### · 8.1 Control parameters

##### · Components with critical values that require monitoring at the workplace:

###### CAS: 14808-60-7 Quartz (SiO<sub>2</sub>)

OEL (Ireland)

Long-term value: 0.1 mg/m<sup>3</sup>

BOELV (European Union)

Long-term value: 0.1\* mg/m<sup>3</sup>  
\*respirable fraction

###### CAS: 1317-65-3 Calcium carbonate

OEL (Ireland)

Long-term value: 10\* 4\*\* mg/m<sup>3</sup>  
\*inhalable dust, \*\*respirable dust

###### CAS: 65997-15-1 Portland cement (low chromate)

OEL (Ireland)

Long-term value: 1 mg/m<sup>3</sup>  
respirable fraction

###### CAS: 1305-62-0 Calcium hydroxide

OEL (Ireland)

Short-term value: 4 mg/m<sup>3</sup>  
Long-term value: 1 mg/m<sup>3</sup>  
IOELV, respirable fraction

IOELV (European Union)

Short-term value: 4 mg/m<sup>3</sup>  
Long-term value: 1 mg/m<sup>3</sup>  
Respirable fraction

##### · DNELs

###### CAS: 1317-65-3 Calcium carbonate

Oral

DNEL

6.1 mg/kg bw/Tag (ArL)

Inhalative

DNEL

10 mg/m<sup>3</sup> (ArL)

###### CAS: 65997-15-1 Portland cement (low chromate)

Inhalative

DNEL

1 mg/m<sup>3</sup> (ArL)

###### CAS: 1305-62-0 Calcium hydroxide

Inhalative

DNEL

1 mg/m<sup>3</sup> (ArL)

##### · PNECs

###### CAS: 1317-65-3 Calcium carbonate

PNEC

100 mg/l (Sewage Treatment Plant)

###### CAS: 1305-62-0 Calcium hydroxide

PNEC

3 mg/l (BEL)

0.32 mg/l (Mew)

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|      |                        |
|------|------------------------|
|      | 0.49 mg/l (Freshwater) |
| PNEC | 1080 mg/kg dwt (Bod)   |

- **Additional information:** The lists that were valid during the compilation were used as basis.
- **8.2 Exposure controls**
- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures**
  - Do not store food, eat, drink, sniff or smoke in the work area!
  - Avoid contact with eyes and skin!
  - Clean hands thoroughly at the end of work and before breaks!
  - Use skin care products after work (moisturising cream).
  - Change and clean heavily soiled clothing!
  - Change clothes at the end of work!
  - Apply greasy skin protection ointment before starting work and after every break.
- **Breathing equipment:** For work with higher dust loads particle filter class P2
- **Hand protection** Check protective gloves prior to each use for their proper condition.
- **Material of gloves** Nitrile impregnated cotton gloves.
- **Penetration time of glove material** The exact breakthrough time must be obtained from the protective glove manufacturer and must be observed.
- **Eye/face protection** Safety glasses
- **Body protection:** Protective work clothing.
- **Skin protection** Use greasy skin protection ointment for all uncovered parts of the body!

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Colour:** Grey
- **Smell:** Characteristic
- **Odour threshold:** Not determined.
- **Melting point/freezing point:** Not determined
- **Boiling point or initial boiling point and boiling range** 2230 °C (CAS: 14808-60-7 Quartz (SiO<sub>2</sub>))
- **Flammability** Not determined.
- **Lower and upper explosion limit**
- **Lower:** Not determined.
- **Upper:** Not determined.
- **Flash point:** Not applicable
- **Decomposition temperature:** Not determined.
- **pH** Not applicable.
- **Viscosity:**
- **Kinematic viscosity** Not applicable.

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|  |   |
|--|---|
| · <b>dynamic:</b>  | Not applicable.                                       |
| · <b>Solubility</b>  |   |
| · <b>Water:</b>  | Insoluble   |
| · <b>Partition coefficient n-octanol/water (log value)</b> | Not determined.                                       |
| · <b>Steam pressure at 1732 °C:</b>                        | 13.5 hPa (CAS: 14808-60-7 Quartz (SiO <sub>2</sub> )) |
| · <b>Density and/or relative density</b>                   |   |
| · <b>Density at 20 °C</b>                                  | 2.67 g/cm <sup>3</sup>                                |
| · <b>Relative density</b>                                  | Not determined.                                       |
| · <b>Vapour density</b>                                    | Not applicable.                                       |
| · <b>Particle characteristics</b>                          | See section 3.  |

· **9.2 Other information**

|  |                              |
|--|------------------------------|
| · <b>Appearance:</b>   |                              |
| · <b>Form:</b>   | Powder                       |
| · <b>Important information on protection of health and environment, and on safety.</b> |                              |
| · <b>Self-inflammability:</b>  | Product is not selfigniting. |
| · <b>Explosive properties:</b>   | Product is not explosive.    |
| · <b>Change in condition</b>   |                              |
| · <b>Evaporation rate</b>  | Not applicable.              |

· **Information with regard to physical hazard classes**

|  |      |
|--|------|
| · <b>Explosives</b>  | Void |
| · <b>Flammable gases</b>   | Void |
| · <b>Aerosols</b>  | Void |
| · <b>Oxidising gases</b>   | Void |
| · <b>Gases under pressure</b>  | Void |
| · <b>Flammable liquids</b>   | Void |
| · <b>Flammable solids</b>  | Void |
| · <b>Self-reactive substances and mixtures</b>                                     | Void |
| · <b>Pyrophoric liquids</b>  | Void |
| · <b>Pyrophoric solids</b>   | Void |
| · <b>Self-heating substances and mixtures</b>                                      | Void |
| · <b>Substances and mixtures, which emit flammable gases in contact with water</b> | Void |
| · <b>Oxidising liquids</b>   | Void |
| · <b>Oxidising solids</b>  | Void |
| · <b>Organic peroxides</b>   | Void |
| · <b>Corrosive to metals</b>   | Void |
| · <b>Desensitised explosives</b>   | Void |

## SECTION 10: Stability and reactivity

|                          |  |
|--------------------------|--|
| · <b>10.1 Reactivity</b> | No further relevant information available. |
|--------------------------|--|

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- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

#### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values that are relevant for classification:**

**CAS: 1317-65-3 Calcium carbonate**

Oral LD50 >2000 mg/kg (rat)

Dermal LD50 >2000 mg/kg (rat)

**CAS: 65997-15-1 Portland cement (low chromate)**

Dermal LD50 2000 mg/kg (rabbit)

Inhalative LC50/4 h 5 mg/l (rat)

**CAS: 1305-62-0 Calcium hydroxide**

Oral LD50 7340 mg/kg (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

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#### SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

**CAS: 1317-65-3 Calcium carbonate**

EC50/72h >14 mg/l (*Desmodesmus subspicatus*)

LC50/96h >10000 mg/l (*Oncorhynchus mykiss*)

LC50/48h >1000 mg/l (*Daphnia magna*)

EC50/48h >1000 mg/l (*Daphnia magna*)

· **12.2 Persistence and degradability**

No further relevant information available.

· **12.3 Bioaccumulative potential**

No further relevant information available.

· **12.4 Mobility in soil**

No further relevant information available.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:**

Not applicable.

· **vPvB:**

Not applicable.

· **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

· **12.7 Other adverse effects**

· **Additional ecological information:**

· **General notes:**

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

#### SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **European waste catalogue**

17 00 00 CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)

17 09 00 other construction and demolition wastes

17 09 03\* other construction and demolition wastes (including mixed wastes) containing hazardous substances

15 00 00 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED

15 01 00 packaging (including separately collected municipal packaging waste)

15 01 01 paper and cardboard packaging

15 00 00 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED

15 01 00 packaging (including separately collected municipal packaging waste)

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|          |   |
|----------|---|
| 15 01 02 | plastic packaging                         |
| HP4      | Irritant - skin irritation and eye damage |

- **Uncleaned packagings:**
- **Recommendation:** Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

**SECTION 14: Transport information**

- **14.1 UN number or ID number**  
· **ADR, IMDG, IATA** Void
- **14.2 UN proper shipping name**  
· **ADR, IMDG, IATA** Void
- **14.3 Transport hazard class(es)**  
· **ADR, ADN, IMDG, IATA**  
· **Class** Void
- **14.4 Packing group**  
· **ADR, IMDG, IATA** Void
- **14.5 Environmental hazards:**  
· **Marine pollutant:** No
- **14.6 Special precautions for user** Not applicable.
- **14.7 Maritime transport in bulk according to IMO instruments** Not applicable.
- **UN "Model Regulation":** Void

**SECTION 15: Regulatory information**

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **REGULATION (EU) 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.

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· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

· **15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

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

· **Department issuing data specification sheet:**

Environment protection department.

· **Date of previous version:**

16.09.2022

· **Version number of previous version:**

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· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
ICAO: International Civil Aviation Organisation  
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

· \* Data compared to the previous version altered.