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Page 1/9

## Safety data sheet according to UK REACH

Printing date 10.12.2024

Version number 25 (replaces version 24)

Revision: 06.12.2024

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

· **1.1 Product identifier**

· **Trade name** MC-KL 1

· **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**

Concrete/Mortar admixtures

· **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.

STOT SE 3 H335 May cause respiratory irritation.

· **2.2 Label elements**

· **Labelling according to**

**Regulation (EC) No 1272/2008** The product is classified and labelled according to the GB CLP regulation.

· **Hazard pictograms**



GHS05 GHS07

· **Signal word**

Danger

· **Hazard-determining  
components of labelling:**

Portland cement  
Fly ash Portland cement

(Contd. on page 2)

GB



BE SURE. BUILD SURE.

### Safety data sheet according to UK REACH

Printing date 10.12.2024

Version number 25 (replaces version 24)

Revision: 06.12.2024

Trade name MC-KL 1

(Contd. of page 1)

- **Hazard statements**
  - H315 Causes skin irritation.
  - H318 Causes serious eye damage.
  - H335 May cause respiratory irritation.
- **Precautionary statements**
  - P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
  - 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.
  - P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- **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: 65997-15-1	Portland cement	≥20-≤30%
EINECS: 266-043-4	Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335	
CAS: 68475-76-3	Fly ash Portland cement	≥1-<2.5%
	Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335	

- **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.

GB

(Contd. on page 3)



BE SURE. BUILD SURE.

## Safety data sheet according to UK REACH

Printing date 10.12.2024

Version number 25 (replaces version 24)

Revision: 06.12.2024

Trade name MC-KL 1

(Contd. of page 2)

### 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:** Ensure adequate ventilation.
- **6.4 Reference to other sections** No dangerous materials are released.  
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;

(Contd. on page 4)



BE SURE. BUILD SURE.

### Safety data sheet according to UK REACH

Printing date 10.12.2024

Version number 25 (replaces version 24)

Revision: 06.12.2024

Trade name MC-KL 1

(Contd. of page 3)

7  
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.  
13

#### SECTION 8: Exposure controls/personal protection

##### · 8.1 Control parameters

- **Components with critical values that require monitoring at the workplace:**

CAS: 65997-15-1 Portland cement

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

##### · DNELs

CAS: 65997-15-1 Portland cement

Inhalative	DNEL	1 mg/m <sup>3</sup> (ArL)
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- **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!

GB

(Contd. on page 5)



BE SURE. BUILD SURE.

## Safety data sheet according to UK REACH

Printing date 10.12.2024

Version number 25 (replaces version 24)

Revision: 06.12.2024

Trade name MC-KL 1

(Contd. of page 4)

### SECTION 9: Physical and chemical properties

#### · 9.1 Information on basic physical and chemical properties

##### · General Information

· Physical state	Solid.
· Colour:	Grey
· Smell:	Characteristic
· Odour threshold:	Not determined.
· Melting point/freezing point:	2230 °C
· 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	Mixture reacts violently with water. Not applicable.
· Viscosity:	
· Kinematic viscosity	Not applicable.
· dynamic:	Not applicable.
· Solubility	
· Water:	Insoluble
· Partition coefficient n-octanol/water (log value)	Not determined.
· Steam pressure at 1732 °C:	13.5 hPa (CAS: 14808-60-7 Quartz (SiO <sub>2</sub> ))
· Density and/or relative density	
· Density	Not determined
· Relative density	Not determined.
· Vapour density	Not applicable.

#### · 9.2 Other information

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

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

· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void

(Contd. on page 6)



BE SURE. BUILD SURE.

### Safety data sheet according to UK REACH

Printing date 10.12.2024

Version number 25 (replaces version 24)

Revision: 06.12.2024

Trade name MC-KL 1

(Contd. of page 5)

- **Flammable liquids** Void
- **Flammable solids** Void
- **Self-reactive substances and mixtures** Void
- **Pyrophoric liquids** Void
- **Pyrophoric solids** Void
- **Self-heating substances and mixtures** Void
- **Substances and mixtures, which emit flammable gases in contact with water** Void
- **Oxidising liquids** Void
- **Oxidising solids** Void
- **Organic peroxides** Void
- **Corrosive to metals** Void
- **Desensitised explosives** Void

#### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** stable
- **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: 65997-15-1 Portland cement**

Dermal	LD50	2000 mg/kg (rabbit)
Inhalative	LC50/4 h	5 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye damage.
- **STOT-single exposure** May cause respiratory irritation.
- **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

GB

(Contd. on page 7)



BE SURE. BUILD SURE.

### Safety data sheet according to UK REACH

Printing date 10.12.2024

Version number 25 (replaces version 24)

Revision: 06.12.2024

Trade name MC-KL 1

(Contd. of page 6)

#### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** *No further relevant information available.*
- **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** *Can be reused without processing.  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.*
- **Uncleaned packagings:**
- **Recommendation:** *Disposal must be made according to official regulations.*

#### SECTION 14: Transport information

- |   |      |
|---|------|
| · <b>14.1 UN number or ID number</b><br>· <b>ADR, IMDG, IATA</b>                            | Void |
| · <b>14.2 UN proper shipping name</b><br>· <b>ADR, IMDG, IATA</b>                           | Void |
| · <b>14.3 Transport hazard class(es)</b><br>· <b>ADR, ADN, IMDG, IATA</b><br>· <b>Class</b> | Void |
| · <b>14.4 Packing group</b><br>· <b>ADR, IMDG, IATA</b>                                     | Void |
| · <b>14.5 Environmental hazards:</b><br>· <b>Marine pollutant:</b>                          | No   |

(Contd. on page 8)



BE SURE. BUILD SURE.

Page 8/9

## Safety data sheet according to UK REACH

Printing date 10.12.2024

Version number 25 (replaces version 24)

Revision: 06.12.2024

Trade name MC-KL 1

(Contd. of page 7)

- |   |                 |
|---|-----------------|
| · <b>14.6 Special precautions for user</b>                            | Not applicable. |
| · <b>14.7 Maritime transport in bulk according to IMO instruments</b> | Not applicable. |
| · <b>UN "Model Regulation":</b>                                       | Void            |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Poisons Act**

· **Regulated explosives precursors**

None of the ingredients is listed.

· **Regulated poisons**

None of the ingredients is listed.

· **Reportable explosives precursors**

None of the ingredients is listed.

· **Reportable poisons**

None of the ingredients is listed.

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I**
- **15.2 Chemical safety assessment:**

None of the ingredients is listed.

A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

- **Relevant phrases**
  - H315 Causes skin irritation.
  - H318 Causes serious eye damage.
  - H335 May cause respiratory irritation.
- **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 (UK REACH)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent

(Contd. on page 9)

GB





BE SURE. BUILD SURE.

Page 9/9

**Safety data sheet  
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**Trade name MC-KL 1**

(Contd. of page 8)

*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.**

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