



BE SURE. BUILD SURE.

Page 1/10

## Safety data sheet according to UK REACH

Printing date 11.04.2026

Version number 8 (replaces version 7)

Revision: 11.04.2026

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

· **1.1 Product identifier**

· **Trade name**

**Emcefix F eCO2**

· **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**

dry 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  
Siloring 8  
CH-5606 Dintikon  
Tel. +41 56 616 68 68  
Fax +41 56 616 68 69

· **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 (low chromate)  
Calcium oxide  
Flue dust, portland cement

(Contd. on page 2)

GB



BE SURE. BUILD SURE.

## Safety data sheet according to UK REACH

Printing date 11.04.2026

Version number 8 (replaces version 7)

Revision: 11.04.2026

**Trade name Emcefix F eCO2**

(Contd. of page 1)

- **Hazard statements**
  - H315 Causes skin irritation.
  - H318 Causes serious eye damage.
  - H335 May cause respiratory irritation.
- **Precautionary statements**
  - 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.**
  - 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<br>EINECS: 266-043-4                                 | Portland cement (low chromate)<br>Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335 | $\geq 20 - \leq 30\%$ |
| CAS: 1317-65-3<br>EINECS: 207-439-9                                  | Calcium carbonate substance with a Community workplace exposure limit                    | $< 10\%$              |
| CAS: 1305-78-8<br>EINECS: 215-138-9                                  | Calcium oxide<br>Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335                  | $\geq 3 - < 5\%$      |
| CAS: 68475-76-3<br>EINECS: 270-659-9                                 | Flue dust, portland cement<br>Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335     | $\geq 1 - < 1.5\%$    |
| CAS: 554-13-2<br>EINECS: 209-062-5<br>Reg.nr.: 01-2119516034-53-0000 | Lithium carbonate<br>Acute Tox. 4, H302; Eye Irrit. 2, H319                              | $< 0.5\%$             |

- **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**
- **After inhalation** Supply fresh air.

(Contd. on page 3)



BE SURE. BUILD SURE.

Page 3/10

## Safety data sheet according to UK REACH

Printing date 11.04.2026

Version number 8 (replaces version 7)

Revision: 11.04.2026

Trade name Emcefix F eCO2

(Contd. of page 2)

- **After skin contact**                      *The product is not skin irritating.*
- **After eye contact**                      *Seek medical treatment.  
Rinse opened eye for several minutes under running water. Then consult a doctor.*
- **After swallowing**                      *Rinse out mouth and then drink plenty of water.  
Seek medical treatment.*

### 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**                      *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**                      *Prevent formation of dust.  
Open and handle container with care.*
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Further information about storage conditions:**                      *None.*
- **Storage class**                      *13*

GB

(Contd. on page 4)



BE SURE. BUILD SURE.

### Safety data sheet according to UK REACH

Printing date 11.04.2026

Version number 8 (replaces version 7)

Revision: 11.04.2026

Trade name Emcefix F eCO2

(Contd. of page 3)

#### 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 (low chromate)**

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

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

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

**CAS: 1305-78-8 Calcium oxide**

WEL Short-term value: 4\* mg/m<sup>3</sup>  
Long-term value: 2 1\* mg/m<sup>3</sup>  
\*respirable fraction

· **DNELs**

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

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

**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: 1305-78-8 Calcium oxide**

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

· **PNECs**

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

PNEC 100 mg/l (Sewage Treatment Plant)

**CAS: 1305-78-8 Calcium oxide**

PNEC 2.27 mg/l (BEL)  
0.24 mg/l (Mew)  
0.37 mg/l (Freshwater)

PNEC 817.4 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**

Keep away from foodstuffs, beverages and food.  
Instantly remove any soiled and impregnated garments.  
Wash hands during breaks and at the end of the work.  
Avoid contact with the skin.  
Avoid contact with the eyes and skin.

(Contd. on page 5)



BE SURE. BUILD SURE.

### Safety data sheet according to UK REACH

Printing date 11.04.2026

Version number 8 (replaces version 7)

Revision: 11.04.2026

**Trade name Emcefix F eCO2**

(Contd. of page 4)

- **Breathing equipment:** *If the limit value is exceeded, respiratory protection with particle filter P2 (white) is required.  
In case of brief exposure or low pollution or when application is performed at confined area with adequate mechanical ventilation meeting local authority requirements, use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.*
- **Hand protection** *Protective gloves.  
After use of gloves apply skin-cleaning agents and skin cosmetics.*
- **Material of gloves** *The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.*
- **Penetration time of glove material** *-*
- **Eye/face protection** *Not required*

## 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:** *Not determined*
- **Boiling point or initial boiling point and boiling range** *2230 °C (CAS: 14808-60-7 Quartz sand)*
- **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*
- **dynamic:** *Not applicable*
- **Solubility**
- **Water:** *Partly miscible*
- **Partition coefficient n-octanol/water (log value)** *Not determined*
- **Steam pressure at 1732 °C:** *13.5 hPa (CAS: 14808-60-7 Quartz sand)*
- **Density and/or relative density**
- **Density at 20 °C** *2.81 g/cm<sup>3</sup>*

(Contd. on page 6)



BE SURE. BUILD SURE.

### Safety data sheet according to UK REACH

Printing date 11.04.2026

Version number 8 (replaces version 7)

Revision: 11.04.2026

Trade name Emcefix F eCO2

(Contd. of page 5)

- **Relative density** *Not determined*
- **Settled apparent density** *1 kg/m<sup>3</sup>*
- **Vapour density** *Not applicable*

· **9.2 Other information**

· **Appearance:**

- **Form:** *Powder*

· **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*
- **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.*

(Contd. on page 7)



BE SURE. BUILD SURE.

**Safety data sheet  
according to UK REACH**

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Version number 8 (replaces version 7)

Revision: 11.04.2026

**Trade name Emcefix F eCO2**

(Contd. of page 6)

- **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 (low chromate)**

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

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

|        |      |                   |
|--------|------|-------------------|
| Oral   | LD50 | >2000 mg/kg (rat) |
| Dermal | LD50 | >2000 mg/kg (rat) |

**CAS: 1305-78-8 Calcium oxide**

|        |      |                      |
|--------|------|----------------------|
| Oral   | LD50 | >2000 mg/kg (rat)    |
| Dermal | LD50 | >2500 mg/kg (rabbit) |

**CAS: 554-13-2 Lithium carbonate**

|            |          |                   |
|------------|----------|-------------------|
| Oral       | LD50     | 525 mg/kg (rat)   |
|            | NOAEL    | 19.23 mg/kg (rat) |
| Dermal     | LD50     | >3000 mg/kg (rat) |
|            | NOAEL    | 64.3 mg/kg (rat)  |
| Inhalative | LC50/4 h | >2 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**

|               |                   |          |
|---------------|-------------------|----------|
| CAS: 554-13-2 | Lithium carbonate | List III |
|---------------|-------------------|----------|

**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)         |

(Contd. on page 8)



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**Trade name Emcefix F eCO2**

(Contd. of page 7)

**CAS: 1305-78-8 Calcium oxide**

|          |                                   |
|----------|-----------------------------------|
| EC50/72h | 184.57 mg/l (algae)               |
| LC50/96h | 50.6 mg/l (Fis)<br>158 mg/l (Mew) |
| EC50/48h | 49.1 mg/l (Freshwater)            |
| NOEC     | 32 mg/l (Mew)<br>48 mg/l (algae)  |

**CAS: 554-13-2 Lithium carbonate**

|           |   |
|-----------|---|
| LC50/96h  | 30.3 mg/l (Oncorhynchus mykiss)   |
| EC50      | 278 mg/l (BEL)  |
| EC50/48h  | 33 mg/l (Daphnia magna)   |
| NOEC      | 15.25 mg/l (Danio rerio)<br>50 mg/l (Desmodesmus subspicatus)<br>19.1 mg/l (Oncorhynchus mykiss)<br>20 mg/l (Daphnia magna) |
| ErC50/72h | >400 mg/l (Desmodesmus subspicatus)   |

- **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** For information on endocrine disrupting properties see section 11.
- **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.
- **Uncleaned packagings:**
- **Recommendation:** Non contaminated packagings can be used for recycling.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

GB

(Contd. on page 9)



BE SURE. BUILD SURE.

### Safety data sheet according to UK REACH

Printing date 11.04.2026

Version number 8 (replaces version 7)

Revision: 11.04.2026

Trade name Emcefix F eCO2

(Contd. of page 8)

#### SECTION 14: Transport information

|  |                |
|--|----------------|
| · 14.1 UN number or ID number<br>· ADR, IMDG, IATA                     | Void           |
| · 14.2 UN proper shipping name<br>· ADR, IMDG, IATA                    | Void           |
| · 14.3 Transport hazard class(es)<br>· ADR, ADN, IMDG, IATA<br>· Class | Void           |
| · 14.4 Packing group<br>· ADR, IMDG, IATA                              | Void           |
| · 14.5 Environmental hazards:<br>· 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<br>· 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<br>· Named dangerous substances - ANNEX I   | None of the ingredients is listed.                     |
| · 15.2 Chemical safety assessment:   | A Chemical Safety Assessment has not been carried out. |

#### SECTION 16: Other information

|                    |                            |
|--------------------|----------------------------|
| · Relevant phrases | H302 Harmful if swallowed. |
|--------------------|----------------------------|

(Contd. on page 10)



BE SURE. BUILD SURE.

Page 10/10

## Safety data sheet according to UK REACH

Printing date 11.04.2026

Version number 8 (replaces version 7)

Revision: 11.04.2026

**Trade name Emcefix F eCO2**

(Contd. of page 9)

*H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.*

· **Department issuing data specification sheet:**

*Environment protection department.*

· **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)*

*PNEC: Predicted No-Effect Concentration (UK REACH)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*Acute Tox. 4: Acute toxicity – Category 4*

*Skin Irrit. 2: Skin corrosion/irritation – Category 2*

*Eye Dam. 1: Serious eye damage/eye irritation – Category 1*

*Eye Irrit. 2: Serious eye damage/eye irritation – Category 2*

*STOT SE 3: Specific target organ toxicity (single exposure) – Category 3*

· **\* Data compared to the previous version altered.**

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