# Safety Data Sheet



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

### 1.1. Product identifier

VELOSIT Mortar and Cement (RM 211)

**Further trade names / Item numbers**

VELOSIT RM 211

**UFI** (EU): FCTD-2SWX-1FCW-YVWF

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Use of the substance/mixture**

Building material

**Uses advised against**

No information available.

### 1.3. Details of the supplier of the safety data sheet

| | | |
|---|---|---|
| Company name: | VELOSIT GmbH & Co.KG | |
| Street: | Industriepark 7 | |
| Place: | D-32805 Horn-Bad Meinberg | |
| Telephone: | +49 5233-9517-300 | Telefax: +49 5233-9517-301 |
| E-mail: | info@velosit.de | |
| Internet: | www.velosit.de | |
| Responsible Department: | Product safety | |

### 1.4. Emergency telephone number:

+49 5233-9517-300 (Mo.-Fr.: 8.00-16.00h)

**Further Information**

*Emergency telephone number*:
Austria (AT): Vergiftungsinformationszentrale Wien: +43 1 406 43 43
Belgium (BE): Centre Antipoisons: +32 70 245245

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Regulation (EC) No 1272/2008**

Skin Irrit. 2; H315
Eye Dam. 1; H318
STOT SE 3; H335

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

**Regulation (EC) No 1272/2008**

**Hazard components for labelling**

Portland cement
CSA clinker

**Signal word:** Danger

**Pictograms:**

**Hazard statements**

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

**Precautionary statements**

| | |
|---|---|
| P261 | Avoid breathing dust. |
| P280 | Wear protective gloves/protective clothing/eye protection. |
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER/doctor. |
| P302+P352 | IF ON SKIN: Wash with plenty of water. |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| | *If the product is available for everybody, additionally:* |
| P102 | Keep out of reach of children. |
| P501 | Dispose of waste according to applicable legislation. |

### 2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

The mixture does not contain substances ≥ 0.1% of substances that have endocrine disrupting properties according to Regulation (EC) No. 1907/2006, Article 59(1) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605.

The product contains chromate reducing agent. As a result, the cement/binder contains less than 0.0002% of water-soluble Chromium (VI). If the storage conditions are not appropriate (exposure to humidity) or the storage period is exceeded, the effectiveness of the present reducing agent can diminish prematurely, and the cement/binder can become skin sensitizing (H317 or EUH203, respectively). Monitoring procedure e.g. DIN EN 196-10

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

**Chemical characterization**

Cement, binder, aggregates, flux agents, additives

**Relevant ingredients**

| CAS No | Chemical name | | | Quantity |
|---|---|---|---|---|
| | EC No | Index No | REACH No | |
| | Classification (Regulation (EC) No 1272/2008) | | | |
| 14808-60-7 | Quartz (SiO2) | | | 55 - 65 % |
| | 238-878-4 | | | |
| | Occupational exposure limit value according to Regulation (EU) 2019/130 | | | |
| 65997-15-1 | Portland cement | | | 30 - 35 % |
| | 266-043-4 | | | |
| | Skin Irrit. 2, Eye Dam. 1, STOT SE 3; H315 H318 H335 | | | |
| 65997-15-1 | calcium sulfoaluminate clinker (CSA clinker) | | | < 5 % |
| | 934-133-9 | | | |
| | Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1B, STOT SE 3; H315 H318 H317 H335 | | | |
| 497-19-8 | sodium carbonate | | | 2 - 4 % |
| | 207-838-8 | 011-005-00-2 | | |
| | Eye Irrit. 2; H319 | | | |

Full text of H and EUH statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

| CAS No | EC No | Chemical name | Quantity |
|---|---|---|---|
| | Specific Conc. Limits, M-factors and ATE | | |
| 65997-15-1 | 266-043-4 | Portland cement | 30 - 35 % |
| | inhalation: LC50 > 5 mg/l (dusts or mists); dermal: LD50 > 2000 mg/kg | | |
| 497-19-8 | 207-838-8 | sodium carbonate | 2 - 4 % |
| | dermal: LD50 > 2000 mg/kg; oral: LD50 = 2800 mg/kg | | |

**Further Information**

Portland cement, CSA clinker and quartz sand are exempt from the registration requirement in accordance with Article 2.7(b) and Annex V.10 of Regulation (EC) No 1907/2006 (REACH)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General information**

In all cases of doubt, or when symptoms persist, seek medical advice.
The product develops an alkaline pH value with moisture and can cause irritation.

**After inhalation**

Provide fresh air. If experiencing respiratory symptoms: Call a doctor.

**After contact with skin**

Wash with plenty of water and soap. In case of skin irritation, consult a physician.

**After contact with eyes**

Do not subject to friction. After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

**After ingestion**

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Call a doctor if you feel unwell. If medical advice is needed, have product container or label at hand.

### 4.2. Most important symptoms and effects, both acute and delayed

May damage the eye-cornea. Irritation to respiratory tract, skin, mucosa. May cause dermatitis.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

**Unsuitable extinguishing media**

No information available.

### 5.2. Special hazards arising from the substance or mixture

Non-flammable. Not combustible

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Use water spray jet to protect personnel and to cool endangered containers.

**Additional information**

Knock down dust with water spray jet. Do not allow to enter into surface water or drains.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**General advice**

Provide adequate ventilation. Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

### 6.3. Methods and material for containment and cleaning up

**For containment**

Take up mechanically. Avoid dust formation. Treat the recovered material as prescribed in the section on waste disposal.

**For cleaning up**

Use approved industrial vacuum cleaner

**Other information**

Provide adequate ventilation.

### 6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Advice on safe handling**

Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes and clothes.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

**Advice on general occupational hygiene**

Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink. Provide adequate ventilation.

### 7.2. Conditions for safe storage, including any incompatibilities

**Requirements for storage rooms and vessels**

Ensure adequate ventilation of the storage area. Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity. The product is hygroscopic.

**Further information on storage conditions**

Recommended storage temperature: room temperature

### 7.3. Specific end use(s)

Cement

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Exposure limits (EH40)**

| CAS No | Substance | ppm | mg/m³ | fibres/ml | Category | Origin |
|---|---|---|---|---|---|---|
| 65997-15-1 | Portland cement, inhalable dust | - | 10 | | TWA (8 h) | WEL |
| 65997-15-1 | Portland cement, respirable dust | - | 4 | | TWA (8 h) | WEL |

**DNEL/DMEL values**

| CAS No | Substance | | |
|---|---|---|---|
| DNEL type | Exposure route | Effect | Value |
| 497-19-8 | sodium carbonate | | |
| Worker DNEL, long-term | inhalation | local | 10 mg/m³ |
| Consumer DNEL, long-term | inhalation | local | 5 mg/m³ |

### 8.2. Exposure controls

**Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**

Tightly sealed safety glasses according to EN166

**Hand protection**

Tested protective gloves must be worn (EN 374).
Required properties: alkali-resistant, abrasion-resistant, waterproof
Recommended material: CR (polychloroprene, chloroprene rubber), NBR (nitrile rubber), Butyl caoutchouc (butyl rubber), FKM (fluoro rubber), PVC (polyvinyl chloride)

**Skin protection**

Use of protective clothing.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection. Particle filter device (EN 143) recommended

**Environmental exposure controls**

Water: Exposure may lead to an increase in the pH value. Ecotoxicological effects may occur if the pH value exceeds 9.

## SECTION 9: Physical and chemical properties

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

| | |
|---|---|
| Physical state: | solid: powder |
| Colour: | grey |
| Odour: | odourless |
| Melting point/freezing point: | > 1000 °C |
| Boiling point or initial boiling point and boiling range: | not determined |
| Flammability: | not determined |
| Lower explosion limits: | not determined |
| Upper explosion limits: | not determined |
| Flash point: | not applicable |
| Auto-ignition temperature: | not determined |
| Decomposition temperature: | not determined |
| pH-Value (at 20 °C): | 11.5-13.5 (10% in water) |
| Viscosity / kinematic: | not applicable |
| Water solubility (at 20 °C): | reacts with water |
| Solubility in other solvents | |
| not determined | |
| Partition coefficient n-octanol/water: | not determined |
| Vapour pressure: | not determined |
| Density (at 20 °C): | 2.75 - 3.2 g/cm³ |
| Bulk density (at 20 °C): | 0.9 - 1.5 kg/m³ |
| Relative vapour density: | not determined |
| Particle characteristics: | average particle size: 5 - 30 µm |

### 9.2. Other information

**Information with regard to physical hazard classes**

Explosive properties

The product is not explosive.

Oxidizing properties

The product is not oxidising.

**Other safety characteristics**

| | |
|---|---|
| Evaporation rate: | not determined |
| Solid content: | not determined |

**Further Information**

The product is hygroscopic.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Contact with water liberates silicate hydrate and calcium hydroxide.
After curing no reactivity

### 10.2. Chemical stability

The product is stable at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

No information available.

### 10.4. Conditions to avoid

Humidity, water

### 10.5. Incompatible materials

Base metals (aluminium, zinc, tin, copper and their alloys)

### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes

**Acute toxicity**

Based on available data, the classification criteria are not met.

**ATEmix calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

| CAS No | Chemical name | | | | |
|---|---|---|---|---|---|
| | Exposure route | Dose | Species | Source | Method |
| 65997-15-1 | Portland cement | | | | |
| | dermal | LD50 > 2000 mg/kg | Rabbit | literature value | Limit test |
| | inhalation (4 h) dust/mist | LC50 > 5 mg/l | Rat | literature value | TNO report V8801/02 |
| 497-19-8 | sodium carbonate | | | | |
| | oral | LD50 2800 mg/kg | Rat | IUCLID | |
| | dermal | LD50 > 2000 mg/kg | Rabbit | IUCLID | EPA16 CFR 1500.40 |

**Irritation and corrosivity**

Skin corrosion/irritation: Causes skin irritation.
Serious eye damage/eye irritation: Causes serious eye damage.

**Sensitising effects**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

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**

May cause respiratory irritation. (Portland cement; CSA clinker)

**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**

No information available.

**Other information**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

**Further information**

The product develops an alkaline pH value with moisture and can cause irritation.
Once cured, the product poses no toxicity risks.

## SECTION 12: Ecological information

### 12.1. Toxicity

Based on available data, the classification criteria are not met.

| CAS No | Chemical name | | | | | |
|---|---|---|---|---|---|---|
| | Aquatic toxicity | Dose | [h][d] | Species | Source | Method |
| 497-19-8 | sodium carbonate | | | | | |
| | Acute fish toxicity | LC50 300 mg/l | 96 h | Lepomis macrochirus | IUCLID | |
| | Acute crustacea toxicity | EC50 200-227 mg/l | 48 h | Ceriodaphnia cf. dubia | IUCLID | |

### 12.2. Persistence and degradability

The product is inorganic. The methods for determining the biological degradability are not applicable to inorganic substances.

### 12.3. Bioaccumulative potential

Not applicable. Product is inorganic.

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### 12.7. Other adverse effects

No information available.

**Further information**

Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal recommendations**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.
Allow the product to cure and dispose of it as construction waste.

**List of Wastes Code - residues/unused products**

101306 WASTES FROM THERMAL PROCESSES; wastes from manufacture of cement, lime and plaster and articles and products made from them; particulates and dust (except 10 13 12 and 10 13 13)

**List of Wastes Code - contaminated packaging**

150105 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); composite packaging

**Contaminated packaging**

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

**Land transport (ADR/RID)**

| | |
|---|---|
| **14.1. UN number or ID number:** | No dangerous good in sense of this transport regulation. |
| **14.2. UN proper shipping name:** | No dangerous good in sense of this transport regulation. |
| **14.3. Transport hazard class(es):** | No dangerous good in sense of this transport regulation. |
| **14.4. Packing group:** | No dangerous good in sense of this transport regulation. |

**Inland waterways transport (ADN)**

| | |
|---|---|
| **14.1. UN number or ID number:** | No dangerous good in sense of this transport regulation. |
| **14.2. UN proper shipping name:** | No dangerous good in sense of this transport regulation. |
| **14.3. Transport hazard class(es):** | No dangerous good in sense of this transport regulation. |
| **14.4. Packing group:** | No dangerous good in sense of this transport regulation. |

**Marine transport (IMDG)**

| | |
|---|---|
| **14.1. UN number or ID number:** | No dangerous good in sense of this transport regulation. |
| **14.2. UN proper shipping name:** | No dangerous good in sense of this transport regulation. |
| **14.3. Transport hazard class(es):** | No dangerous good in sense of this transport regulation. |
| **14.4. Packing group:** | No dangerous good in sense of this transport regulation. |

**Air transport (ICAO-TI/IATA-DGR)**

| | |
|---|---|
| **14.1. UN number or ID number:** | No dangerous good in sense of this transport regulation. |
| **14.2. UN proper shipping name:** | No dangerous good in sense of this transport regulation. |
| **14.3. Transport hazard class(es):** | No dangerous good in sense of this transport regulation. |
| **14.4. Packing group:** | No dangerous good in sense of this transport regulation. |

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

No information available.

**14.7. Maritime transport in bulk according to IMO instruments**

Not applicable

**Other applicable information**

## SECTION 15: Regulatory information

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

**EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 47, Entry 75: not applicable

Information according to Directive 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

**Additional information**

No restrictions under REACH; does not contain any substances from the SVHC list

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

**Changes**

Adaptation to current regulations, guidelines and information

**Abbreviations and acronyms**

Skin Irrit. 2: Skin irritation, hazard category 2
Eye Dam. 1: Serious eye damage, hazard category 1
Eye Irrit. 2: Eye irritation, hazard category 2
Skin Sens. 1B: Skin sensitisation, hazard category 1B
STOT SE 3: Specific target organ toxicity - single exposure, hazard category 3

ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
CLP: Classification, labelling and Packaging
REACH: Registration, Evaluation and Authorization of Chemicals
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
UN: United Nations
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration
ATE: Acute toxicity estimate
LL50: Lethal loading, 50%
EL50: Effect loading, 50%
EC50: Effective Concentration 50%
PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
RID: Regulations concerning the international carriage of dangerous goods by rail
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
EmS: Emergency Schedules
MFAG: Medical First Aid Guide
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
SVHC: Substance of Very High Concern
For abbreviations and acronyms, see table at http://abbrev.esdscom.eu
LL50: Lethal loading, 50%
EL50: Effect loading, 50%
EC50: Effective Concentration 50%
ErC50: Effective Concentration 50%, growth rate
NOEC: No Observed Effect Concentration
BCF: Bio-concentration factor
PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
UVCB: Unknown or Variable Compositon, Complex Reaction Products, and Biological Materials
For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).
EC/EEC: European Community/European Economic Community
EU: European Unionor
IATA: International Air Transport Association

DGR: Dangerous Goods Regulations
ICAO: International Civil Aviation Organization
TI: Technical Instructions

**Classification for mixtures and used evaluation method**

| Classification | Classification procedure |
|---|---|
| Skin Irrit. 2; H315 | Calculation method |
| Eye Dam. 1; H318 | Calculation method |
| STOT SE 3; H335 | Calculation method |

**Relevant H and EUH statements (number and full text)**

| | |
|---|---|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |

**Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

**Identified uses**

| No | Short title | LCS | SU | PC | PROC | ERC | AC | TF | Specification |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Building materials | PW, C | 19 | 9b | - | - | - | - | Cement |

LCS: Life cycle stages
SU: Sectors of use
PC: Product categories
PROC: Process categories
ERC: Environmental release categories
AC: Article categories
TF: Technical functions

*(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*