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

### 1.1 Product identifier

**Frank Spezialmörtel 3/25**
**Article number: MQUELLM**

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

#### 1.2.1 Relevant uses

mortar

#### 1.2.2 Uses advised against

None known.

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

**Company**

Max Frank GmbH & Co. KG
Mitterweg 1
94339 Leiblfing / GERMANY
Phone +49 (0)9427 189-234
Fax +49 (0)9427 189-275
Homepage www.maxfrank.de
E-mail info@maxfrank.de

**Address enquiries to**

**Technical information** info@maxfrank.de

**Safety Data Sheet** sicherheitsdatenblatt@maxfrank.de

### 1.4 Emergency telephone number

**Advisory body** +49 (0)89-19240 (24h) (english)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture [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.
Skin Sens. 1: H317 May cause an allergic skin reaction.

### 2.2 Label elements

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

**Hazard pictograms**

**Signal word** DANGER

**Contains:** Cement, portland, chemicals

**Hazard statements**

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

**Precautionary statements**

P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves / protective clothing / 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.
P302+P352 IF ON SKIN: Wash with plenty of water / soap.
P333+P313 If skin irritation or rash occurs: Get medical advice / attention.
P501 Dispose of contents/container in accordance with local/national regulation.

### 2.3 Other hazards

**Environmental hazards** Does not contain any PBT or vPvB substances.

**Other hazards** Further hazards were not determined with the current level of knowledge.

## SECTION 3: Composition / Information on ingredients

**Product-type:**

**The product is a mixture.**

| Range [%] | Substance |
|---|---|
| 20 - <100 | Cement, portland, chemicals |
| | CAS: 65997-15-1, EINECS/ELINCS: 266-043-4 |
| | GHS/CLP: Skin Irrit. 2: H315 - STOT SE 3: H335 - Eye Dam. 1: H318 - Skin Sens. 1B: H317 |

**Comment on component parts** Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
For full text of H-statements: see SECTION 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**General information** Take off contaminated clothing and wash before reuse.

**Inhalation** Ensure supply of fresh air.
Remove the victim into fresh air and keep him calm.
In the event of symptoms seek medical treatment.

**Skin contact** In case of contact with skin wash off immediately with soap and water.
Consult a doctor if skin irritation persists.

**Eye contact** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Shield unaffected eye.
Consult a doctor immediately.

**Ingestion** Do not induce vomiting.
Rinse out mouth and give plenty of water to drink.
Consult a doctor immediately.

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

Irritant effects
Allergic reactions

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

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered.

**Extinguishing media that must not be used** Full water jet

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

Risk of formation of toxic pyrolysis products.

### 5.3 Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

## SECTION 6: Accidental release measures

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

Avoid dust formation.
Ensure adequate ventilation.
Use personal protective equipment.
Use breathing apparatus if exposed to dust.

### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.
In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

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

Take up mechanically. Avoid production of dust.
Dispose of absorbed material in accordance within the regulations.

### 6.4 Reference to other sections

See SECTION 8+13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Use only in well-ventilated areas.
Avoid the formation and deposition of dust.
Avoid spilling in enclosed areas.

Do not eat, drink or smoke when using this product.
Take off contaminated clothing and wash before reuse.
Wash hands before breaks and after work.
Use barrier skin cream.

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

Prevent penetration into the ground.
Keep only in original container.

Do not store together with food and animal food/diet.
Keep away from water.

Keep container tightly closed.
Keep container in a well-ventilated place.
Store in a dry place.
Protect from contamination.
Protect from atmospheric moisture and water.
Recommended storage temperature: 5-25 °C (41-77 °F).
In cements that contain chromate reducing agents, it should be noted that the effectiveness of the reducing agent decreases with time. Therefore cement bags and / or delivery documents contain data on the minimum duration of efficacy. Within this period, the content of water-soluble chromium (VI) remains below 0.0002 % (determination according to EN 196-10). The manufacturer's instructions for proper storage must be followed. Case of non proper storage (ingress of moisture) or overlaying of the cement, the chromate reducer contained may lose its efficacy prematurely and a sensitizing effect of the cement in contact with skin can not be excluded.

### 7.3 Specific end use(s)

See product use, SECTION 1.2

## SECTION 8: Exposure controls / personal protection

### 8.1 Control parameters

**Ingredients with occupational exposure limits to be monitored (GB)**

| Substance |
|---|
| Cement, portland, chemicals |
| CAS: 65997-15-1, EINECS/ELINCS: 266-043-4 |
| Long-term exposure: 10 mg/m³, inhalable dust; respirable dust: TWA=4 mg/m³ |

### 8.2 Exposure controls

| | |
|---|---|
| **Additional advice on system design** | Ensure adequate ventilation on workstation. |
| **Eye protection** | In the event of dust formation:<br>If there is a risk of splashing:<br>Tightly fitting goggles. (EN 166:2001) |
| **Hand protection** | The details concerned are recommendations. Please contact the glove supplier for further information.<br>Impermeable gloves. |
| **Skin protection** | Protective clothing. |
| **Other** | Avoid contact with eyes and skin.<br>Do not inhale dust.<br>Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier. |
| **Respiratory protection** | Not required under normal conditions.<br>Respiratory protection in the case of dust formation.<br>Short term: filter apparatus, combination filter A-P1. (DIN EN 14387) |
| **Thermal hazards** | not applicable |
| **Delimitation and monitoring of the environmental exposition** | Comply with applicable environmental regulations limiting discharge to air, water and soil. |

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

| | |
|---|---|
| **Form** | powder<br>dusty |
| **Color** | dark grey |
| **Odor** | odourless |
| **Odour threshold** | not applicable |
| **pH-value** | 11,0 - 13,5 (Suspension in water) |
| **pH-value [1%]** | not applicable |
| **Boiling point [°C]** | not applicable |
| **Flash point [°C]** | not applicable |
| **Flammability (solid, gas) [°C]** | not determined |
| **Lower explosion limit** | not determined |
| **Upper explosion limit** | not determined |
| **Oxidising properties** | no |
| **Vapour pressure/gas pressure [kPa]** | not applicable |
| **Density [g/ml]** | not determined |
| **Bulk density [kg/m³]** | 900 - 1500 |
| **Solubility in water** | 3 g/L |
| **Partition coefficient [n-octanol/water]** | not determined |
| **Viscosity** | not applicable |
| **Relative vapour density determined in air** | not applicable |
| **Evaporation speed** | not applicable |
| **Melting point [°C]** | >1250 |
| **Autoignition temperature [°C]** | not self-igniting |
| **Decomposition temperature [°C]** | not determined |

### 9.2 Other information

none

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Reacts alkaline with water. In contact with water intended reaction takes place in which the product hardens and forms a solid mass which does not react with its environment.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reactions known.

### 10.4 Conditions to avoid

Water
Contact with moisture.

### 10.5 Incompatible materials

Reacts exothermically with acids; The moist product is alkaline and reacts with acids, ammonium salts and base metals, eg Aluminum, zinc. In the reaction with base metals, hydrogen is formed.

### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

**Acute toxicity**

| Substance |
|---|
| Cement, portland, chemicals, CAS: 65997-15-1 |
| LD50, dermal, Rabbit: > 2000 mg/kg. |
| LD50, oral, Rat: > 2000 mg/kg. |
| LC50, inhalative, Rat: > 5 g/m³. |

| | |
|---|---|
| **Serious eye damage/irritation** | Based on the available information, the classification criteria are fulfilled.<br>Risk of serious damage to eyes.<br>Calculation method |
| **Skin corrosion/irritation** | Based on the available information, the classification criteria are fulfilled.<br>Irritant<br>Calculation method |
| **Respiratory or skin sensitisation** | Based on the available information, the classification criteria are fulfilled.<br>Sensitizing.<br>Calculation method |
| **Specific target organ toxicity — single exposure** | Based on the available information, the classification criteria are fulfilled.<br>May cause respiratory irritation.<br>Calculation method |
| **Specific target organ toxicity — repeated exposure** | Based on the available information, the classification criteria are not fulfilled.<br>No classification.<br>Calculation method |
| **Mutagenicity** | Based on the available information, the classification criteria are not fulfilled.<br>No classification.<br>Calculation method |
| **Reproduction toxicity** | Based on the available information, the classification criteria are not fulfilled.<br>No classification.<br>Calculation method |
| **Carcinogenicity** | Based on the available information, the classification criteria are not fulfilled.<br>No classification.<br>Calculation method |
| **Aspiration hazard** | Based on the available information, the classification criteria are not fulfilled.<br>No classification.<br>Calculation method |
| **General remarks** | Toxicological data of complete product are not available.<br>The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials. |

## SECTION 12: Ecological information

### 12.1 Toxicity

### 12.2 Persistence and degradability

| | |
|---|---|
| **Behaviour in environment compartments** | not determined |
| **Behaviour in sewage plant** | not determined |
| **Biological degradability** | The methods for determining the boilogical degradability are not applicable to inorganic substances. |

### 12.3 Bioaccumulative potential

Product has having no bioaccumulation potential.

### 12.4 Mobility in soil

Cured product is immobile.

### 12.5 Results of PBT and vPvB assessment

not applicable

### 12.6 Other adverse effects

Ecological data of complete product are not available.
Do not discharge product unmonitored into the environment.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

**Product**

Coordinate disposal with the authorities if necessary.

**Waste no. (recommended)** 170903*

**Contaminated packaging**

Uncontaminated packaging may be taken for recycling.
Packaging that cannot be cleaned should be disposed of as for product.

**Waste no. (recommended)** 150110*

## SECTION 14: Transport information

### 14.1 UN number

| | |
|---|---|
| **Transport by land according to ADR/RID** | not applicable |
| **Inland navigation (ADN)** | not applicable |
| **Marine transport in accordance with IMDG** | not applicable |
| **Air transport in accordance with IATA** | not applicable |

### 14.2 UN proper shipping name

| | |
|---|---|
| **Transport by land according to ADR/RID** | NO DANGEROUS GOODS |
| **Inland navigation (ADN)** | NO DANGEROUS GOODS |
| **Marine transport in accordance with IMDG** | NOT CLASSIFIED AS "DANGEROUS GOODS" |
| **Air transport in accordance with IATA** | NOT CLASSIFIED AS "DANGEROUS GOODS" |

### 14.3 Transport hazard class(es)

| | |
|---|---|
| **Transport by land according to ADR/RID** | not applicable |
| **Inland navigation (ADN)** | not applicable |
| **Marine transport in accordance with IMDG** | not applicable |
| **Air transport in accordance with IATA** | not applicable |

### 14.4 Packing group

| | |
|---|---|
| **Transport by land according to ADR/RID** | not applicable |
| **Inland navigation (ADN)** | not applicable |
| **Marine transport in accordance with IMDG** | not applicable |
| **Air transport in accordance with IATA** | not applicable |

### 14.5 Environmental hazards

| | |
|---|---|
| **Transport by land according to ADR/RID** | no |
| **Inland navigation (ADN)** | no |
| **Marine transport in accordance with IMDG** | no |
| **Air transport in accordance with IATA** | no |

### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not applicable

## SECTION 15: Regulatory information

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

| | |
|---|---|
| **EEC-REGULATIONS** | 1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014 |
| **TRANSPORT-REGULATIONS** | DOT-Classification, ADR (2017); IMDG-Code (2017, 38. Amdt.); IATA-DGR (2018). |
| **NATIONAL REGULATIONS (GB):** | EH40/2005 Workplace exposure limits (Second edition, published December 2011). |
| **- Observe employment restrictions for people** | Observe employment restrictions for young people.<br>Observe employment restrictions for mothers-to-be and nursing mothers. |
| **- VOC (2010/75/CE)** | not applicable |

### 15.2 Chemical safety assessment

not applicable

## SECTION 16: Other information

### 16.1 Hazard statements (SECTION 03)

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

### 16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ATE = acute toxicity estimate
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
ELINCS = European List of Notified Chemical Substances
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform ChemicaL Information Database
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
LC0 = lethal concentration, 0%
LOAEL = lowest-observed-adverse-effect level
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
NOAEL = No Observed Adverse Effect Level
NOEC = No Observed Effect Concentration
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
STP = Sewage Treatment Plant
TLV®/TWA = Threshold limit value – time-weighted average
TLV®STEL = Threshold limit value – short-time exposure limit
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative

### 16.3 Other information

**Classification procedure**

Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)
Eye Dam. 1: H318 Causes serious eye damage. (Calculation method)
STOT SE 3: H335 May cause respiratory irritation. (Calculation method)
Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)

**Modified position**

none