

# Knauf METSELMORTEL + KALK 25 kg. Art.nr. 4418

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

Issue date: 4/3/2020 Revision date: 4/2/2020 Version: 5.0

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : Knauf METSELMORTEL + KALK 25 kg. Art.nr. 4418

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

##### 1.2.1. Relevant identified uses

No additional information available

##### 1.2.2. Uses advised against

No additional information available

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

MARBOS GmbH & Co. KG  
Kressenweg 15  
44379 Dortmund - Deutschland  
T +49 (0) 231 9957 0 - F +49 (0) 231 9957 139  
[info@marbos.de](mailto:info@marbos.de) - [www.marbos.de](http://www.marbos.de)

#### 1.4. Emergency telephone number

Emergency number : +49 (0) 231 99 58 136  
Working days: 8:00 a.m. - 16:00 p.m. or mail to [sdb@marbos.de](mailto:sdb@marbos.de)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Irrit. 2 H315

Eye Dam. 1 H318

Full text of hazard classes and H-statements : see section 16

##### Adverse physicochemical, human health and environmental effects

Whirled up dust may cause respiratory irritation. Mortar mixed with water becomes a strong alkaline solution. Due to the high alkalinity, the final mixture can cause skin and eye irritation. Additional mechanical influences (e.g. kneel in the wet mortar) may aggravate the skin irritation.

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP] Extra labelling to display

Hazard pictograms (CLP) :



GHS05

Signal word (CLP) : Danger  
Hazardous ingredients : Portland cement  
Hazard statements (CLP) : H315 - Causes skin irritation.  
H318 - Causes serious eye damage.  
Precautionary statements (CLP) : P102 - Keep out of reach of children.  
P280 - Wear 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 doctor, a POISON CENTER.  
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.  
Extra phrases : In case of proper storage in a dry location low in chromate content for at least 12 months from date of manufacture.

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### 2.3. Other hazards

Other hazards not contributing to the classification : Product contains chromate reducing agent. Therefore, 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 be diminished prematurely, and the cement/binder can become skin sensitizing (H317 or EUH203, respectively).

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
quartz, conc respirable crystalline silica<1% substance with a Community workplace exposure limit	(CAS-No.) 14808-60-7 (EC-No.) 238-878-4	30 - 80	Not classified
Portland cement	(CAS-No.) 65997-15-1 (EC-No.) 266-043-4	10 - 20	Skin Sens. 1, H317 Eye Dam. 1, H318 Skin Irrit. 2, H315 STOT SE 3, H335

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures general : Protective equipment emergency responders. Not required.
- First-aid measures after inhalation : In case of irritation or coughing : Move the affected person away from the contaminated area and into the fresh air. Get medical advice/attention if you feel unwell.
- First-aid measures after skin contact : Rinse and then wash skin thoroughly with water and soap. Wash contaminated clothing before reuse.
- First-aid measures after eye contact : Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
- First-aid measures after ingestion : Do not induce vomiting. Rinse mouth out with water. Drink plenty of water. Get medical advice/attention.

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

- Symptoms/effects after inhalation : Inhalation may cause irritation, cough, shortness of breath.
- Symptoms/effects after skin contact : Repeated or prolonged contact may cause skin irritation.
- Symptoms/effects after eye contact : May cause severe irritation. Risk of serious permanent damages to eyes if the product is not rapidly removed.

### 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 : The product is not flammable. Adapt extinguishing media to the environment for surrounding fires.

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

- Fire hazard : Non combustible. Non oxidizing.
- Explosion hazard : Product is not explosive.

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### 5.3. Advice for firefighters

Firefighting instructions : No specific fire-fighting instructions required.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment. See Heading 8. Precautions for safe handling. See Heading 7.

Measures in case of dust release : In case of dust production: keep upwind.

#### 6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required. Breathing apparatus needed only when dust is formed.

### 6.2. Environmental precautions

Do not allow to enter drains or water courses.

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

Methods for cleaning up : Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Do not use compressed air for cleaning.

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

Precautions for safe handling : Provide adequate ventilation to minimize dust and/or vapour concentrations. Use personal protective equipment as required. When using open mixing tub fill it with water first, then sprinkle the dry mortar in carefully. Keep height of fall low. Start up stirrer slowly.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.

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

Technical measures : Does not require any specific or particular technical measures.

Storage conditions : Store in dry protected location to prevent any moisture contact. Store in original container. Do not store in aluminium, galvanized or other corrodable containers.

Packaging materials : The mixture is low in chromate, because the content of sensitizing chromium (VI) is reduced by additives to below 2 ppm in the cement portion of the mortar. Prerequisite for the effectiveness of the chromate reduction is the proper storage and observance of the expiration date.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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Germany	TRGS 900 Local name	Allgemeiner Staubgrenzwert - Alveolengängige/Einatembare Fraktion
Germany	Occupational exposure limit value (mg/m <sup>3</sup> )	1.25 mg/m <sup>3</sup> (A) 10 mg/m <sup>3</sup> (E)
Germany	TRGS 900 Remark	AGS;DFG
quartz, conc respirable crystalline silica<1% (14808-60-7)		
EU	Local name	Silica crystalline (Quartz)
EU	IOELV TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (Respirable fraction)
EU	Notes	OEL limit below 0.05 mg/m <sup>3</sup> of respirable silica dust. (Year of adoption 2003)
Netherlands	Local name	Silicium(di)oxide – kwarts

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<b>quartz, conc respirable crystalline silica&lt;1% (14808-60-7)</b>		
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	0.075 mg/m <sup>3</sup> (Voor respirabel stof)

ANNEX\_XVII\_47.\_RESTR

1. Cement and cement-containing mixtures shall not be placed on the market, or used, if they contain, when hydrated, more than 2 mg/kg (0,0002 %) soluble chromium VI of the total dry weight of the cement.
2. If reducing agents are used, then without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of cement or cement-containing mixtures is visibly, legibly and indelibly marked with information on the packing date, as well as on the storage conditions and the storage period appropriate to maintaining the activity of the reducing agent and to keeping the content of soluble chromium VI below the limit indicated in paragraph 1.
3. By way of derogation, paragraphs 1 and 2 shall not apply to the placing on the market for, and use in, controlled closed and totally automated processes in which cement and cement-containing mixtures are handled solely by machines and in which there is no possibility of contact with the skin.
4. The standard adopted by the European Committee for Standardization (CEN) for testing the water-soluble chromium (VI) content of cement and cement-containing mixtures shall be used as the test method for demonstrating conformity with paragraph 1.

### 8.2. Exposure controls

#### Appropriate engineering controls:

Provide adequate ventilation to minimize dust concentrations.

#### Personal protective equipment:

Wear recommended personal protective equipment.

#### Materials for protective clothing:

Long sleeved protective clothing. Impervious footwear must be worn

#### Hand protection:

Wear waterproof, abrasion and alkali-resistant gloves. Investigations have proven that nitrile impregnated cotton gloves (layer thickness of about 0.15 mm) provide sufficient protection over a period of 480 minutes.

#### Eye protection:

In case of dust production: protective goggles. Use eye protection according to EN 166, designed to protect against dusts.

#### Skin and body protection:

Observe skin protection plan. Apply skin care products, in particular after work.

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. (FFP1). (FFP2). (FFP3). Filtering Half-face mask (DIN EN 149)

#### Environmental exposure controls:

Avoid creating or spreading dust. Heavy dust production, requiring special system to control the emission of particles. Before neutralisation the alkalinity of the product may represent a danger to aquatic organisms. Do not allow into drains or water courses.

#### Consumer exposure controls:

The substance is not classified for human health hazards or for environment effects and it is not PBT or vPvB so that no exposure assessment or risk characterisation is required. For tasks where the intervention of workers is required, the substance must be handled in accordance with good industrial hygiene and safety procedures.

#### Other information:

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

## SECTION 9: Physical and chemical properties

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

Physical state : Solid  
Appearance : Powder.

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Colour	: Grey.
Odour	: odourless.
Odour threshold	: No data available
pH	: 10 – 13
pH solution	: ≈ 10 g/l
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: > 1350 °C Not determined
Freezing point	: Not applicable.
Boiling point	: Not specifically applicable
Flash point	: Not applicable.
Auto-ignition temperature	: Not self-igniting
Decomposition temperature	: Does not decompose when used for intended uses
Flammability (solid, gas)	: Not flammable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Water: ≈ 3 g/l
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Product is not explosive.
Oxidising properties	: Non oxidizing.
Explosive limits	: No data available

### **9.2. Other information**

Bulk density : 900 – 1500 kg/m<sup>3</sup>

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

Reacts with water.

### **10.2. Chemical stability**

Stable under normal conditions.

### **10.3. Possibility of hazardous reactions**

No dangerous reactions known under normal conditions of use.

### **10.4. Conditions to avoid**

Keep container tightly closed to prevent moisture pick-up. Don ' use packaging made out of aluminium, zinc or tin.

### **10.5. Incompatible materials**

Reacts with (some) acids. Reacts with (some) metals and their compounds. Avoid aluminium, magnesium and zinc. ammonium salts.

### **10.6. Hazardous decomposition products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

Acute toxicity	: Not classified
Skin corrosion/irritation	: Causes skin irritation. pH: 10 – 13
Serious eye damage/irritation	: Causes serious eye damage. pH: 10 – 13
Respiratory or skin sensitisation	: Not classified

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Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Long-term exposure to respirable cement dust above the occupational exposure limit may cause coughing, shortness of breath and chronic obstructive changes in the respiratory tract. No chronic effects have been observed at low concentrations. (Conclusive but not sufficient for classification)
Aspiration hazard	: Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

Portland cement (65997-15-1)	
LC50 fish 1	> 1000 mg/l (96 h, Pisces)

### 12.2. Persistence and degradability

Portland cement (65997-15-1)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

quartz, conc respirable crystalline silica<1% (14808-60-7)	
Persistence and degradability	Biodegradability: not applicable. No (test)data on mobility of the substance available.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable

### 12.3. Bioaccumulative potential

Portland cement (65997-15-1)	
Bioaccumulative potential	Bioaccumulation: not applicable.

quartz, conc respirable crystalline silica<1% (14808-60-7)	
Bioaccumulative potential	No bioaccumulation data available.

### 12.4. Mobility in soil

Portland cement (65997-15-1)	
Ecology - soil	No (test)data on mobility of the substance available.

quartz, conc respirable crystalline silica<1% (14808-60-7)	
Ecology - soil	Low potential for mobility in soil.

### 12.5. Results of PBT and vPvB assessment

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This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
Component	
Portland cement (65997-15-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
quartz, conc respirable crystalline silica<1% (14808-60-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

### 12.6. Other adverse effects

No additional information available

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

- Regional legislation (waste) : Disposal must be done according to official regulations.
- Waste treatment methods : Mechanically recover the product. Recycle product or dispose safely.
- Sewage disposal recommendations : Do not allow into drains or water courses.
- Product/Packaging disposal recommendations : Empty remaining contents. Entrust the thoroughly decontaminated packaging to a licensed waste-contractor.
- European List of Waste (LoW) code : 17 09 04 - mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

#### 14.6. Special precautions for user

**- Overland transport**

Not applicable

**- Transport by sea**

Not applicable

**- Air transport**

Not applicable

**- Inland waterway transport**

Not applicable

**- Rail transport**

Not applicable

#### 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

##### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

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- Other information, restriction and prohibition regulations : ANNEX\_XVII\_47.\_RESTR: 1.Cement and cement-containing mixtures shall not be placed on the market, or used, if they contain, when hydrated, more than 2 mg/kg (0,0002 %) soluble chromium VI of the total dry weight of the cement.
- 2.If reducing agents are used, then without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of cement or cement-containing mixtures is visibly, legibly and indelibly marked with information on the packing date, as well as on the storage conditions and the storage period appropriate to maintaining the activity of the reducing agent and to keeping the content of soluble chromium VI below the limit indicated in paragraph 1.
- 3.By way of derogation, paragraphs 1 and 2 shall not apply to the placing on the market for, and use in, controlled closed and totally automated processes in which cement and cement-containing mixtures are handled solely by machines and in which there is no possibility of contact with the skin.
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### 15.1.2. National regulations

#### Germany

- Regulatory reference : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)
- Storage class (LGK) : LGK 13 - Non-combustible solids
- Employment restrictions : Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)  
Observe restrictions according Act on the Protection of Working Mothers (MuSchG)
- Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
- GISCODE : ZP1 - Products containing cement, low in chromate
- National Rules and Recommendations : TRGS 402: Identification and Assessment of the Risks from Activities involving Hazardous Substances: Inhalation Exposure  
TRGS 900: Occupational Exposure Limits

#### Netherlands

- SZW-lijst van kankerverwekkende stoffen : Portland cement,quartz, conc respirable crystalline silica<1% are listed
- SZW-lijst van mutagene stoffen : Portland cement is listed
- NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed
- NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed
- NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

This safety data sheet replaces the previous version of 8/18/2017. The following changes were made:

Full text of H- and EUH-statements:	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

SDS EU (REACH Annex II)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*