

## Safety data sheet

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Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 04.08.2016

Version: 4.0

Product: **KBS® Mortar / Ignitect Z Red**

(ID no. 30533540/SDS\_GEN\_EU/EN)

Date of print 04.05.2021

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

#### 1.1. Product identifier

**KBS® Mortar / Ignitect Z Red**

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

Relevant identified uses: Flame retardant.

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

Company:

Wolman Wood and Fire Protection GmbH  
Dr.-Wolman-Str. 31-33  
76547 Sinzheim, Germany

Telephone: +49 7221 800-0

#### 1.4. Emergency telephone number

International emergency number:  
Chem-Tel: +1-813-248-0585

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### SECTION 2: Hazards Identification

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

According to Regulation (EC) No 1272/2008 [CLP]

Skin Corr./Irrit. 2  
Eye Dam./Irrit. 1

H318, H315

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For the classifications not written out in full in this section the full text can be found in section 16.

## 2.2. Label elements

Globally Harmonized System, EU (GHS)

Pictogram:



Signal Word:

Danger

Hazard Statement:

H318 Causes serious eye damage.

H315 Causes skin irritation.

Precautionary Statements (Prevention):

P280 Wear protective gloves and eye/face protection.

P264 Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):

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 or doctor/physician.

P303 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

According to Regulation (EC) No 1272/2008 [CLP]

Hazard determining component(s) for labelling: Cement, portland, chemicals

## 2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

No specific dangers known, if the regulations/notes for storage and handling are considered. The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria. If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

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## SECTION 3: Composition/Information on Ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

#### Chemical nature

Blend based on: Ashes (residues), Vermiculite, Cement, portland, chemicals

#### Hazardous ingredients (GHS)

according to Regulation (EC) No. 1272/2008

Cement, portland, chemicals

Content (W/W): $\geq 0.3\%$ - $< 20\%$	Skin Corr./Irrit. 2
CAS Number: 65997-15-1	Eye Dam./Irrit. 1
EC-Number: 266-043-4	STOT SE 3 (irr. to respiratory syst.)
	H318, H315, H335

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

## SECTION 4: First-Aid Measures

### 4.1. Description of first aid measures

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention. Immediately administer a corticosteroid from a controlled/metered dose inhaler.

On skin contact:

Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

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

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Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

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

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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### **SECTION 5: Fire-Fighting Measures**

#### **5.1. Extinguishing media**

Suitable extinguishing media:

Not applicable

Unsuitable extinguishing media for safety reasons:  
not applicable

Additional information:

Product itself is non-combustible. Only the packaging materials can catch fire. The extinguishing agents normally used are sufficient.

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

Product is not combustible or explosive. No particular hazards known.

#### **5.3. Advice for fire-fighters**

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered. The degree of risk is governed by the burning substance and the fire conditions. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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### **SECTION 6: Accidental Release Measures**

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

Use personal protective clothing. Information regarding personal protective measures see, section 8.

Avoid contact with the skin, eyes and clothing. Do not breathe dust. Ensure adequate ventilation.

Wear respiratory protection if ventilation is inadequate.

#### **6.2. Environmental precautions**

Do not discharge into drains/surface waters/groundwater.

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

For large amounts: Sweep/shovel up. Collect waste in suitable containers, which can be labeled and sealed.

For residues: Sweep/shovel up.

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Dispose of absorbed material in accordance with regulations. Cleaning operations should be carried out only while wearing breathing apparatus. Avoid raising dust.

#### **6.4. Reference to other sections**

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

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## **SECTION 7: Handling and Storage**

### **7.1. Precautions for safe handling**

The Cement contained in this product reacts alkaline when in contact with water or humidity. This may cause severe irritation of skin or mucous membranes. The humidity of the skin or mucous membranes is enough for this reaction. Prolonged direct contact to the dry product should be avoided therefore. Ensure thorough ventilation of stores and work areas. Wear suitable protective clothing and eye/face protection. Avoid contact with the skin, eyes and clothing.

Protection against fire and explosion:

No special precautions necessary. The product is neither self-ignitable, nor an explosion hazard, nor does it promote fires.

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

Segregate from foodstuffs.

Suitable materials for containers: Paper/Fibreboard

Further information on storage conditions: Keep container dry.

### **7.3. Specific end use(s)**

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

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## **SECTION 8: Exposure Controls/Personal Protection**

### **8.1. Control parameters**

Components with occupational exposure limits

1317-65-3: Limestone

65997-15-1: Cement, portland, chemicals

1318-00-9: Vermiculite

68131-74-8: Ashes (residues)

### **8.2. Exposure controls**

Personal protective equipment

Respiratory protection:

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Suitable respiratory protection for lower concentrations or short-term effect: Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

#### Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing. Manufacturer's directions for use should be observed because of great diversity of types.

#### Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

#### Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

#### General safety and hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is required additionally to the stated personal protection equipment. Avoid contact with the skin, eyes and clothing. Do not breathe dust. No eating, drinking, smoking or tobacco use at the place of work. Hands and/or face should be washed before breaks and at the end of the shift. Store work clothing separately. Observe skin protection measures like preventive skin protection, soil-related careful cleaning and application of creamy skin-care agents. Segregate from foodstuffs.

## SECTION 9: Physical and Chemical Properties

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

Form:	powder	
Colour:	red	
Odour:	odourless	
Odour threshold:	not applicable, odour not perceivable	
pH value:	11.5 - 12.0 (water, 20 °C)	
Melting point:	not determined	
<i>Information on: Cement, portland, chemicals</i>		
Melting point:	> 1,000 °C (1,013.25 hPa) <i>Literature data.</i>	(other)
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Boiling point:	not applicable	

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Flash point:	not applicable, the product is a solid
Evaporation rate:	negligible
Flammability:	Based on the chemical structure there is no indication of flammability
Lower explosion limit:	For solids not relevant for classification and labelling.
Upper explosion limit:	For solids not relevant for classification and labelling.
Vapour pressure:	negligible
Relative vapour density (air):	negligible
Solubility in water:	partly soluble
Partitioning coefficient n-octanol/water (log Kow):	not applicable for mixtures
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.
Viscosity, dynamic:	not applicable, the product is a solid
Explosion hazard:	Based on the chemical structure there is no indicating of explosive properties.
Fire promoting properties:	Based on its structural properties the product is not classified as oxidizing.

## 9.2. Other information

Self heating ability:	It is not a substance capable of spontaneous heating.
Bulk density:	600 - 800 kg/m <sup>3</sup>

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## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals: No data available.

### 10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### 10.3. Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

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**10.4. Conditions to avoid**

See MSDS section 7 - Handling and storage. Avoid humidity.

**10.5. Incompatible materials**

Substances to avoid:

aluminum compounds

**10.6. Hazardous decomposition products**

Hazardous decomposition products:

No hazardous decomposition products known.

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**SECTION 11: Toxicological Information****11.1. Information on toxicological effects**Acute toxicity

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion.

Experimental/calculated data:

ATE (oral): &gt; 5,000 mg/kg

Irritation

Assessment of irritating effects:

May cause severe damage to the eyes. Skin contact causes irritation. The cement contained in this product reacts alkaline when in contact with water or humidity. This may cause severe irritation of skin or mucous membranes. The humidity of the skin or mucous membranes is enough for this reaction.

*Information on: Cement, portland, chemicals**Experimental/calculated data:**Skin corrosion/irritation rabbit: Irritant.*  
-----*Information on: Cement, portland, chemicals**Experimental/calculated data:**Serious eye damage/irritation rabbit: irreversible damage*  
-----Respiratory/Skin sensitization

Assessment of sensitization:

Chromate in this product has been reduced. Sensitization due to chromate within stated shelf-life is unlikely. A sensitizing effect on particularly sensitive individuals cannot be excluded.



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#### Germ cell mutagenicity

*Information on: Cement, portland, chemicals**Assessment of mutagenicity:**The substance was not mutagenic in bacteria.*  
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#### Carcinogenicity

Assessment of carcinogenicity:

Not evaluated

#### Reproductive toxicity

Assessment of reproduction toxicity:

No data available.

#### Specific target organ toxicity (single exposure)

Assessment of STOT single:

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

#### Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

No data available.

#### Aspiration hazard

No aspiration hazard expected.

#### Other relevant toxicity information

The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

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## **SECTION 12: Ecological Information**

### **12.1. Toxicity**

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. At the present state of knowledge, no negative ecological effects are expected.

*Information on: Cement, portland, chemicals**Aquatic invertebrates:**LC50 (48 h) > 100 mg/l, Daphnia magna (static)*

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*Information on: Cement, portland, chemicals*

*Aquatic plants:**EC50 (96 h) > 100 mg/l (growth rate), Selenastrum capricornutum (static)*  
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## 12.2. Persistence and degradability

Elimination information:

Not readily biodegradable (by OECD criteria).

*Information on: Cement, portland, chemicals**Assessment biodegradation and elimination (H2O):**Inorganic product which cannot be eliminated from water by biological purification processes. The product is slightly soluble in water. It can be largely eliminated from the water by abiotic processes, e.g. mechanical separation.*  
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## 12.3. Bioaccumulative potential

*Information on: Cement, portland, chemicals**Assessment bioaccumulation potential:**The product will not be readily bioavailable due to its consistency and insolubility in water.*  
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## 12.4. Mobility in soil

Assessment transport between environmental compartments:

Adsorption in soil: not determined

## 12.5. Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria. Self classification

## 12.6. Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

## 12.7. Additional information

Other ecotoxicological advice:

The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

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## SECTION 13: Disposal Considerations

### 13.1. Waste treatment methods

Observe national and local legal requirements.

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## SECTION 14: Transport Information

### Land transport

#### ADR

	Not classified as a dangerous good under transport regulations
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

#### RID

	Not classified as a dangerous good under transport regulations
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

### Inland waterway transport

#### ADN

	Not classified as a dangerous good under transport regulations
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user:	None known

### Transport in inland waterway vessel

Not evaluated

**Sea transport**

## IMDG

	Not classified as a dangerous good under transport regulations
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

**Air transport**

## IATA/ICAO

	Not classified as a dangerous good under transport regulations
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

**14.1. UN number**

See corresponding entries for "UN number" for the respective regulations in the tables above.

**14.2. UN proper shipping name**

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

**14.3. Transport hazard class(es)**

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

**14.4. Packing group**

See corresponding entries for "Packing group" for the respective regulations in the tables above.

**14.5. Environmental hazards**

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

**14.6. Special precautions for user**

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See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

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

Regulation:	Not evaluated
Shipment approved:	Not evaluated
Pollution name:	Not evaluated
Pollution category:	Not evaluated
Ship Type:	Not evaluated

### **SECTION 15: Regulatory Information**

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

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

#### **15.2. Chemical Safety Assessment**

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

### **SECTION 16: Other Information**

Any other intended applications should be discussed with the manufacturer. Corresponding occupational protection measurements must be followed.

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3:

Skin Corr./Irrit.	Skin corrosion/irritation
Eye Dam./Irrit.	Serious eye damage/eye irritation
STOT SE	Specific target organ toxicity — single exposure
H318	Causes serious eye damage.
H315	Causes skin irritation.
H335	May cause respiratory irritation.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

Vertical lines in the left hand margin indicate an amendment from the previous version.