

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## KOESTER KD 1 Base

Revision date: 20.02.2018

Product code: W211

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

#### 1.1. Product identifier

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

##### Use of the substance/mixture

The product is intended for professional use. Building and construction work.

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

|                          |                             |                           |
|--------------------------|-----------------------------|---------------------------|
| Company name:            | KOESTER BAUCHEMIE AG        |                           |
| Street:                  | Dieselstrasse 1 - 10        |                           |
| Place:                   | D-26607 Aurich              |                           |
| Telephone:               | +49-4941-9709-0             | Telefax: +49-4941-9709-40 |
| e-mail (Contact person): | produksicherheit@koester.eu |                           |
| Internet:                | www.koester.eu              |                           |
| Responsible Department:  | Forschung & Entwicklung     |                           |

#### 1.4. Emergency telephone number:

+49-551-19240 (24 h, Giftinformationszentrum Nord)

### SECTION 2: Hazards identification

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

##### Regulation (EC) No. 1272/2008

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Dam. 1

Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:

Causes skin irritation.

Causes serious eye damage.

May cause respiratory irritation.

#### 2.2. Label elements

##### Regulation (EC) No. 1272/2008

##### Hazard components for labelling

Portlandcement clinker

Signal word: Danger

Pictograms:



##### Hazard statements

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

##### Precautionary statements

|                |  |
|----------------|--|
| P101           | If medical advice is needed, have product container or label at hand.  |
| P102           | Keep out of reach of children.   |
| 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.   |

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P321 Specific treatment (see SECTION 4: First aid measures on this label).

### Additional advice on labelling

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

### 2.3. Other hazards

The product develops an alkaline pH value with moisture and can cause irritation.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

Cement product for which the amount of chromium VI was decreased to < 0,0002 % by a reduction agent (related to the total dry weight).

#### Hazardous components

| CAS No     | Chemical name   |          |          | Quantity |
|------------|---|----------|----------|----------|
|            | EC No   | Index No | REACH No |          |
|            | Classification according to Regulation (EC) No. 1272/2008 [CLP] |          |          |          |
| 65997-15-1 | Portlandcement clinker  |          |          | < 50 %   |
|            | 266-043-4   |          |          |          |
|            | Skin Irrit. 2, Eye Dam. 1, STOT SE 3; H315 H318 H335            |          |          |          |

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

First aider: Pay attention to self-protection! Avoid contact with skin, eyes and clothes.

#### After inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. In all cases of doubt, or when symptoms persist, seek medical advice.

#### After contact with skin

After contact with skin, wash immediately with plenty of water. Change contaminated clothing.

#### After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

#### After ingestion

Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Call a physician in any case!

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

Following eye contact: Risk of serious damage to eyes.

After skin contact: The product develops an alkaline pH value with moisture and can cause irritation. Contains chromium (VI). May produce an allergic reaction.

Following inhalation: Inhalation of dust may cause irritation of the respiratory system.

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

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

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

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Suitable extinguishing media: Foam, Carbon dioxide (CO<sub>2</sub>), Sand, Extinguishing powder.

**Unsuitable extinguishing media**

High power water jet.

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

The product itself does not burn.

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Fire fighting water forms corrosive alkaline solutions - slip hazard! Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes and clothes. Wear 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**

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

**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**

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 should be ventilated by technical means.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

**Further information on handling**

When diluting/dissolving, always have the water ready first, then slowly stir in the product.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Moisture-sensitive. Keep the packing dry and well sealed to prevent contamination and absorption of humidity.

**Advice on storage compatibility**

No special precautionary measures are necessary.

**Further information on storage conditions**

No special technical protective measures are necessary.

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

No information available.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

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#### Exposure limits (EH40)

| CAS No     | Substance                        | ppm | mg/m <sup>3</sup> | fibres/ml | Category      | Origin |
|------------|----------------------------------|-----|-------------------|-----------|---------------|--------|
| 65997-15-1 | Portland cement, respirable dust | -   | 4                 |           | TWA (8 h)     | WEL    |
|            |                                  | -   | -                 |           | STEL (15 min) | WEL    |

#### 8.2. Exposure controls

##### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust.

##### Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

##### Eye/face protection

In the case of the formation of dust. Tightly sealed safety glasses.

##### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.

##### Skin protection

Only wear fitting, comfortable and clean protective clothing.

##### Respiratory protection

Respiratory protection necessary at: insufficient ventilation. half-mask with filter (DIN EN 149).

##### Environmental exposure controls

Avoid release to the environment. Do not empty into drains.

## SECTION 9: Physical and chemical properties

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

Physical state: solid  
 Colour: brown  
 Odour: odourless

#### Changes in the physical state

Melting point: 1250 °C  
 Sustaining combustion: Not sustaining combustion

#### Flammability

Solid: Non-flammable.

#### Explosive properties

not explosive.

#### Oxidizing properties

Not oxidising.

Density: 3 g/cm<sup>3</sup>  
 Bulk density: 1,16 kg/m<sup>3</sup>  
 Water solubility: practically insoluble

### 9.2. Other information

Solid content: 100

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Moisture-sensitive.

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#### **10.2. Chemical stability**

The product is chemically stable under recommended conditions of storage, use and temperature.

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

No special precautionary measures are necessary.

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

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.

#### **10.5. Incompatible materials**

Aluminium. Acid.

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

No known hazardous decomposition products.

### **SECTION 11: Toxicological information**

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

##### **Toxicokinetics, metabolism and distribution**

No information available.

##### **Acute toxicity**

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

##### **Irritation and corrosivity**

Causes skin irritation.

Causes serious eye damage.

##### **Sensitising effects**

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

May cause sensitization by skin contact.

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

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

No indications of human reproductive toxicity exist.

##### **STOT-single exposure**

May cause respiratory irritation. (Portlandcement 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.

##### **Specific effects in experiment on an animal**

No information available.

##### **Additional information on tests**

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

### **SECTION 12: Ecological information**

#### **12.1. Toxicity**

Inorganic product which is not eliminable from water through biological cleaning processes. Product is not easily biodegradable.

#### **12.2. Persistence and degradability**

The methods for determining the biological degradability are not applicable to inorganic substances. According to experiences this product is inert and not degradable.

#### **12.3. Bioaccumulative potential**

On the basis of existing data about the elimination/degradation and bioaccumulation potential longer term damage to the environment is unlikely.

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**12.4. Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

**12.6. Other adverse effects**

No information available.

**Further information**

Do not allow to enter into surface water or drains.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Advice on disposal**

Dispose of waste according to applicable legislation.

**Waste disposal number of waste from residues/unused products**

101311 WASTES FROM THERMAL PROCESSES; wastes from manufacture of cement, lime and plaster and articles and products made from them; wastes from cement-based composite materials other than those mentioned in 10 13 09 and 10 13 10

**Waste disposal number of used product**

170107 CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES); concrete, bricks, tiles and ceramics; mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06

**Contaminated packaging**

Water (with cleaning agent). Completely emptied packages can be recycled.

**SECTION 14: Transport information****Land transport (ADR/RID)****14.1. UN number:** not applicable**Other applicable information (land transport)**

No dangerous good in sense of these transport regulations.

**Inland waterways transport (ADN)****14.1. UN number:** not applicable**Other applicable information (inland waterways transport)**

No dangerous good in sense of these transport regulations.

**Marine transport (IMDG)****14.1. UN number:** not applicable**Other applicable information (marine transport)**

No dangerous good in sense of these transport regulations.

**Air transport (ICAO-TI/IATA-DGR)****Other applicable information (air transport)**

No dangerous good in sense of these transport regulations.

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**14.6. Special precautions for user**

SECTION 6: Accidental release measures

SECTION 7: Handling and storage

SECTION 8: Exposure controls/personal protection

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**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****National regulatory information**

Water contaminating class (D): 1 - slightly water contaminating

**15.2. Chemical safety assessment**

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

**SECTION 16: Other information****Relevant H and EUH statements (number and full text)**

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

**Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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