

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**KÖSTER Deuxan 2K B**

Print date: 16.12.2014

Product code: 0116b

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

KÖSTER Deuxan 2K B

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

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

**Uses advised against**

No identified use(s).

**1.3. Details of the supplier of the safety data sheet****Manufacturer**

Company name:	KOESTER BAUCHEMIE AG	
Street:	Dieselstrasse 3 - 10	
Place:	D-26607 Aurich	
Telephone:	++49-4941-9709-0	Telefax: ++49-4941-9709-46
e-mail:	produktsicherheit@koester.eu	
Internet:	www.koester.eu	
Responsible Department:	Forschung & Entwicklung	

**Supplier**

Company name:	KÖSTER Aquatecnic Ltd.	
Street:	33 Castledykes Road	
Place:	DG1 4SN Dumfries	
Telephone:	+44 8452268283	Telefax: +44 8452268293
Contact person:	Nigel Day	

**1.4. Emergency telephone number:**

++49-4941-9709-0

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

Indications of danger: Xi - Irritant  
R phrases:  
Irritating to respiratory system and skin.  
Risk of serious damage to eyes.  
May cause sensitisation by skin contact.

**GHS classification**

Hazard categories:  
Skin corrosion/irritation: Skin Irrit. 2  
Serious eye damage/eye irritation: Eye Dam. 1  
Respiratory/skin sensitization: Skin Sens. 1  
Hazard Statements:  
May cause respiratory irritation.  
Causes serious eye damage.  
Causes skin irritation.  
May cause an allergic skin reaction.

**2.2. Label elements****Hazardous components which must be listed on the label**

Portlandcement clinker

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Signal word:

Danger

Pictograms:

GHS05-GHS07



**Hazard statements**

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

**Precautionary statements**

- P102 Keep out of reach of children.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P312 Call a POISON CENTER/doctor if you feel unwell.
- P304 IF INHALED:
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 Call a POISON CENTER/doctor if you feel unwell.
- P284 Wear respiratory protection.
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

**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**

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
266-043-4	Portlandcement clinker	< 50 %
65997-15-1	Xi - Irritant R37/38-41	
	Skin Irrit. 2, Eye Dam. 1, STOT SE 3; H315 H318 H335	

Full text of R and H phrases: see Section 16.

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

First aider: Pay attention to self-protection!

**After inhalation**

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

**After contact with skin**

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Medical treatment necessary.

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**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**

Rinse mouth immediately and drink plenty of water.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

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

**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**

Wear a self-contained breathing apparatus and chemical protective clothing. Full protective suit.

**Additional information**

Suppress gases/vapours/mists with water spray jet. 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 generation of dust. 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.

**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.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

**Further information on handling**

Do not breathe dust.

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

**Requirements for storage rooms and vessels**

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

**Advice on storage compatibility**

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**Further information on storage conditions**

4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate

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

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**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
65997-15-1	Portlandcement clinker	-	-	3	TWA (8 h) STEL (15 min)	

**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).

**SECTION 9: Physical and chemical properties**

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

Physical state: solid  
Colour: grey  
Odour: odourless

**Test method**

**Changes in the physical state**

Melting point: 1250 °C

**Flammability**

Solid: Non-flammable.

**Explosive properties**

not explosive.

**Oxidizing properties**

Not oxidizing.

Density: 3 g/cm<sup>3</sup>

Bulk density: 1,2 kg/m<sup>3</sup>

Water solubility: practically insoluble

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No risks worthy of mention.

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**10.2. Chemical stability**

No risks worthy of mention.

**10.3. Possibility of hazardous reactions**

No risks worthy of mention.

**10.4. Conditions to avoid**

No risks worthy of mention.

**10.5. Incompatible materials**

Aluminium. Acid.

**10.6. Hazardous decomposition products**

No risks worthy of mention.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Toxicokinetics, metabolism and distribution**

No information available.

**Acute toxicity**

No information available.

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
65997-15-1	Portlandcement clinker				
	dermal	LD50	2000 mg/kg	Kaninchen	Kietzmann et al 1999
	inhalative aerosol	LC50	0,005 mg/l	Ratte	TNO Report V8801/02

**Irritation and corrosivity**

Irritating to eyes. Risk of serious damage to eyes. Following inhalation: Lung irritation. Coughing. shortage of breath. After skin contact: Irritant.

**Sensitising effects**

May cause sensitization by skin contact.

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

No indications of human reproductive toxicity exist.

**Specific effects in experiment on an animal**

No information available.

**Additional information on tests**

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

**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**

Does not accumulate in organisms.

**12.4. Mobility in soil**

No information available.

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

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

**Further information**

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

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

Dispose of waste according to applicable legislation.

**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)****Other applicable information (land transport)**

No dangerous good in sense of these transport regulations.

**Inland waterways transport (ADN)****Other applicable information (inland waterways transport)**

No dangerous good in sense of these transport regulations.

**Marine transport (IMDG)****Other applicable information (marine transport)**

No dangerous good in sense of these transport regulations.

**Air transport (ICAO)****Other applicable information (air transport)**

No dangerous good in sense of these transport regulations.

**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****Full text of R phrases referred to under Sections 2 and 3**

37/38 Irritating to respiratory system and skin.  
41 Risk of serious damage to eyes.  
43 May cause sensitisation by skin contact.

**Full text of H statements referred to under Sections 2 and 3**

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.

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H318 Causes serious eye damage.  
H335 May cause respiratory irritation.

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