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1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name:

BUSCHBECK Kaminkleber Spezial

1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.

Application of the substance / the preparation

Ready-mixed mortar - Product for an industrial, technical and private use for mixing with water and subsequent processing on buildings. For all other uses is advised against/ not recommended.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Buschbeck GmbH Friedrich-Engels-Str. 21 51545 Waldbröl Germany

Tel.: +49 (0)2291 907180 0 Fax: +49 (0)2291-907180 8 Mail: info@buschbeck.de Web: www.buschbeck.de

Further information obtainable from: Product safety department (on working days 8:00 - 16:00)

1.4 Emergency telephone number

National poisons information centre: +44/(0)171 - 635 9191 European emergency call: 112

2 Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.

GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Additional information:

The classification in terms of skin and eye irritation is based on the results of animal studies, see section 16 literature [4], [11] and [12].

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

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Hazard pictograms		
GHS05 GHS07		
Signal word Danger		
Hazard-determining control Portland cement clinker	omponents of labelling:	
Hazard statements H315 Causes skin irrita H318 Causes serious e H317 May cause an alle	ye damage.	
Precautionary stateme P102 P261 P280 P305+P351+P338+P31	 Keep out of reach of children. Avoid breathing dust. Wear protective gloves/protective clothing/eye protection/face protection. 5 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention. 	
P302+P352+P332+P31	3 IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.	
P362+P364 P501	Take off contaminated clothing and wash it before reuse. Dispose of contents/container to appropriate waste collection point.	
2.3 Other hazards		

As soon as the dry mixture comes into contact with water or humidity, a strongly alkaline solution will be formed. Wet mortar may cause skin and eye irritation due to the high alkalinity. Especially with prolonged contact (e.g. knees in wet mortar) the risk of serious skin damage increases due to the alkalinity.

The part of respirable, cristaline siliciumdioxide amounts below 1%. The product ist no subject to a declaration obligation. However, the use of breathing protection is advisable.

Dust from the dry mixture can cause respiratory irritation. Frequent inhalation of large amounts of dust increases the risk of developing lung diseases.

The mixture is chromate reduced and therefore is no risk of sensitization by chromate. The ready to use form after addition of water contains in maximum 0,0002% of soluble chromium(VI) based on the dry weight of the cement. Proper dry storage and compliance with the maximum storage time is required for an effective chromate reduction.

Results of PBT and vPvB assessment

PBT: Not applicable. **vPvB:** Not applicable.

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3 Composition/information on ingredients

3.1 Chemical characterization: Substances

This product is a mixture.

3.2 Chemical characterisation: Mixtures

Description: Mixture of inorganic binders, fillers, and nonhazardous

Dangerous components:		
CAS: 14808-60-7 EINECS: 238-878-4 Reg.nr.: -	Silicon dioxide, quartz sand (<1% RCS) Substance with a Community workplace exposure limit	25-50%
CAS: 65997-16-2 EINECS: 266-045-5 Reg.nr.: 01-2119989490-26	Calcium aluminate cement	25-50%
CAS: 1332-58-7	Kaolin Substance with a Community workplace exposure limit	10-25%
CAS: 65997-15-1 EINECS: 266-043-4 Reg.nr.: 02-2119682167-31	Portland cement clinker Eye Dam. 1, H318; () Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	2.5-10%
CAS: 7778-18-9 EINECS: 231-900-3 Reg.nr.: 01-2119444918-26	Calcium sulphate, various hydrates $CaSO_4 \times (0 - 2) H_2O$ Substance with a Community workplace exposure limit	2.5-10%

Additional information: For the wording of the listed risk phrases refer to section 16.

4 First aid measures

4.1 Description of first aid measures



First aid

General information:

For first responder no special personal protective equipment is required. First responder should avoid contact with the product.

After inhalation:

Remove dust source and provide fresh air or bring the person in fresh air. If discomfort, cough or persistent irritation, seek medical attention.

After skin contact:

Immediately wash with water and soap and rinse thoroughly. Immediately remove all soiled and contaminated clothing. Wash contaminated clothes before reuse. Clean contamionated shoes before reuse. If skin irritation continues, consult a doctor.

After eye contact:

Do not rub eyes because additional damage to eyes can be caused by mechanical stress. If necessary, remove contact lenses and flush the eye immediately while holding eyelids open to water for at least 20 minutes. If possible, isotonic eyewash solution (e. g. 0,9% NaCl). Always consult an occupational physician or ophthalmologist.

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braing to 1907/2000/EC, Article 3



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After swallowing:

Do not induce vomiting. If conscious rinse mouth with water and drink plenty of water. Consult a physician or poison control center.

4.2 Most important symptoms and effects, both acute and delayed Symptoms and effects are described in section 2 and 11.

Eye contact with the product may cause serious and potentially permanent damage.

The product in the dry state by prolonged contact can also have an irritant effect on moist skin. The contact with moist skin may cause skin irritation, dermatitis or other serious skin damage.

4.3 Indication of any immediate medical attention and special treatment needed

If a physician is to be consulted, as per possibillity he should be presented this safety data sheet.

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

The mixture is flammable neither in the delivery condition not in mixed conditions. Extinguisher and fire fighting are therefore adjusted to the surrounding fire.

5.2 Special hazards arising from the substance or mixture

This product is neither explosive nor flammable, and non-oxidizing with other materials. Inorganic dust can appear in case of fire. Avoid formation of dust. Reacts alkaline with water.

5.3 Advice for firefighters

No special measures required. Collect contaminated fire fighting water separately. It must not enter the sewage system. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid formation of dust. Avoid inhalation, eye and skin contact. If appropriate, reference must be made to exposure controls and personal protection (see section 8).

6.2 Environmental precautions

Do not allow product to reach water because an increase of pH may be caused. Ecotoxicological effects may occur when the pH-value is above 9. National regulations for waste water and groundwater are to be observed.

6.3 Methods and material for containment and cleaning up

Collect spilled dry material dry and use if possible. Avoid formation of dust. For cleaning use at least industrial vacuum dust class M (DIN EN 60335-2-69). Do not dry sweep. Never use compressed air for cleaning. If, during a dry cleaning dust is formed, then it is necessary to use personal protective equipment. Avoid inhalation of emerging dust and contact with skin. Dispose of the material collected according to regulations.

Let the mixed mortar solidify and dispose of (see section 13.1).

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

7 Handling and storage

7.1 Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace. Prevent formation of dust. Avoid contact with the eyes and skin. Wear protective clothing. Washing facilities / Water for cleaning eyes and skin should be available. Persons, who tend to skin diseases or other hypersensitivity reactions of the skin, should not handle the product. Do not eat, drink, smoke or sniff while working.

Do not use products after the specified storage period any more, because the effect of the reducing agent contained decreases and the content of soluble chromium (VI) may exceed those limits mentioned in section 2.3. In these cases may develop an allergic Chromate dermatitis with prolonged contact due to the water-soluble chromate contained in the product.

Information about fire - and explosion protection:

No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Keep out of reach of children. Store in cool, dry place in tightly closed receptacles. Do not use light alloy receptacles.

Information about storage in one common storage facility:

Keep away from foodstuffs, beverages and feed.

Further information about storage conditions:

Store dry. Prevent ingress of water and moisture. Always keep in original container. Improper storage (ingress of moisture) or exceeding the maximum storage period, can subside the effect of contained chromate reducer (see section 7.1).

Miniumum storage life:

Minimum storage life (story dry, up to 20 °C): See indication on package.

Storage class: 13

7.3 Specific end use(s)

No further relevant information available.

8 Exposure controls/personal protection

8.1 Control parame	eters			
Ingredients with lin	Ingredients with limit values that require monitoring at the workplace: 14808-60-7 Silicon dioxide, quartz sand (<1% RCS)			
14808-60-7 Silicon				
MAK (Germany)	Long-term value: 0.15 A mg/m ³ 24; Y; DFG			
1332-58-7 Kaolin				
WEL (Great Britain)	Long-term value: 2 mg/m ³			
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65997-15-	1 Portlan	d cement cli	(Contd. of pag
WEL (Great Britain) L			
,	,		ust **respirable dust
AGW (Gei	many)	Long-term v DFG	ralue: 5 E mg/m ³
7778-18-9	Calcium	-	arious hydrates CaSO₄ x (0 - 2) H₂O
AGW (Ger		•	ralue: 6 A mg/m ³
DNELs			
7778-18-9	Calcium	sulphate, va	arious hydrates CaSO₄ x (0 - 2) H₂O
Oral	DNEL ac	ute systemic	11.4 mg/kg (Consumer)
	DNEL lor	ng term	1.25 mg/kg (Consumer)
Inhalative	DNEL ac	ute systemic	3811 mg/m ³ (Consumer)
			5082 mg/m ³ (Workers)
	DNEL lor	ng term	5.29 mg/m ³ (Consumer)
			21.17 mg/m ³ (Workers)
PNECs			·
7778-18-9	Calcium	sulphate, va	arious hydrates CaSO₄ x (0 - 2) H₂O
 mg/l (Soil) not toxic 100 mg/l (Activated sludge organisms) mg/l (Water) not toxic 			
	-	-	sure Limit Values for possible hazards during processing:
-		general dust	
MAK (TRO	GS 900) (G	Lo	ort-term value: 6 A 20 E mg/m³ ng-term value: 1.25 A 10 E mg/m³ - IFA 6068 (2003) E - IFA 7284 (2003)
A - Alveo	les passin	g particles	E - Respirable particles (DIN EN 481)
Additional information: The lists valid during the making were used as basis.		were used as basis.	
8.2 Expos	ure contr	ols	
8.2.1. Pers	sonal pro	tective equip	pment
Keep awa thoroughly	y from foc v clean it b	odstuffs, beve before using i	c measures: erages and feed. Remove contaminated clothing immediately a it again. Wash hands before breaks and at the end of work. Av Do not eat, drink, smoke or sniff while working. Use skin protect



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Respiratory protection:



Particle filtering half mask (FFP2 according to EN 149)

Compliance with the Occupational Exposure Limits is to be ensured through effective dusttechnical measures, such as local exhaust ventilation. If there is a risk of exceeding the exposure limits, e. g. the open fiddling with the powdered dry product or during processing by splash, an appropriate respirator must be used.

Protection of hands:



Hand protection: Chemical resistant protective gloves according EN 374

Wear waterproof, abrasion and alkali-resistant protective gloves with CE marking. leather gloves are not suitable on the basis of their water permeability and can release chromate-containing compounds.

Material of gloves:

When preparing and processing the ready-mix, no chemical-resistant gloves (Cat. III) are necessary. Studies have shown that nitrilge-soaked cotton gloves (layer thickness about 0.15 mm) offer over a period of 480 min adequate protection. Change damp gloves. Keep gloves ready for change.

Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact gloves made of the following materials are suitable:

Nitrile rubber, NBR gloves

Recommended thickness of the material: \geq 0,15mm

Not suitable are gloves made of the following materials:

Leather gloves

Eye protection:



In case of dust development or splash risk use tightly fitting safety goggles according to EN 166.

Body protection:



Wear closed long-sleeved clothing and tight shoes. If contact with fresh mortar is unavoidable, the protective clothing should also be waterproof. Make sure that no fresh mortar from above gets into the shoes or boots.

Risk management measures:

An operator training/guidance in the correct use of personal protective equipment is necessary to ensure the required level of effectiveness.

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8.2.2. Information about design of technical facilities

For reduction of the dust formation, closed systems (e. g. silo with conveyor) local exhaust or other engineering controls such as plastering machines or continuous mixers with special additional equipment for dust detection should be used.

8.2.3. Limitation and supervision of exposure into the environment

Do not allow product to reach water because an increase of pH may be caused. Ecotoxicological effects may occur when the pH-value is above 9. National regulations for waste water and groundwater are to be observed.

9.1 Information on basic physical and chemical properties General Information		
Appearance:		
Form:	Powder	
Colour:	Light grey	
Odour:	Odourless	
pH-value:	10 - 11	
	Saturated aqueous solution	
Change in condition		
Melting point/Melting range:		
Boiling point/Boiling range:	Not applicable.	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Product is not flammable.	
gnition temperature:		
Decomposition temperature	Not determined.	
Self-igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Density:	Not determined.	
Bulk density at 20 °C (68 °F):	1400 - 1600 kg/m³	
Solubility in / Miscibility with		
water:	Slightly soluble	
Solvent content:		
Organic solvents:	0.0 %	
VOC (EC)	0.00 %	
Solids content:	100 %	
9.2 Other information	No further relevant information available.	

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10 Stability and reactivity

10.1 Reactivity

Reacts alkaline with water. A proposed reaction takes place in contact with water, during which the product hardens and forms a solid mass, which does not react with the environment.

10.2 Chemical stability:

The product is stable as long as it is stored properly and dry.

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions

No dangerous reactions known (see 10.5).

10.4 Conditions to avoid

Prevent entry of water and moisture during storage (the mixture reacts with moisture alkaline and hardens).

10.5 Incompatible materials

Reacts exothermically with acids. The wet product is alkaline and reacts with acids, ammonium salts and base metals e.g. aluminum, zinc or brass. The reaction with base metals produces hydrogen.

10.6 Hazardous decomposition products

No decomposition if used and stored according to specifications.

Miniumum storage life:

Minimum storage life (story dry, up to 20 °C): See indication on package.

Additional information:

The mixture is chromate reduced. The ready for use preparation after addition of water contains in maximum 2 mg/kg dissolvable chrom(VI) related to the dry mass. Presupposition for the chromate reduction is the appropriate storage under consideration of the maximum storage life.

11 Toxicological information

11.1 Information on toxicological effects

The product was not investigated. The statement is derivated from the properties of the single components.

Acute toxicity:

ATE (A	cute Toxicity Es	timates)
Inhalativ	ve LC50 (4h)	131 mg/l (Rat)
65997-15-1 Portland cement clinker		ment clinker
Oral	LD50	 >2000 mg/kg (Mouse) In animal studies with cement dust no acute toxicity was observed. On the basis of the available data, the classification criteria are not



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	Dermal LD0 (no lethality)		2000 mg/kg (Rabbit) (Limit test 24h [4])
			On the basis of the available data, the classification criteria are not fulfilled.
	Inhalative	LD0 (no lethality)	5 mg/m ³ (Rat) (Limit test [10]) On the basis of the available data, the classification criteria are not fulfilled.
Γ	7778-18-9 Calcium sulphate, various hydrates CaSO₄ x (0 - 2) H₂O		e, various hydrates CaSO₄ x (0 - 2) H₂O
Γ	Oral	LD50	>2000 mg/kg (Rat)
	Inhalative	LC50 (4h)	>5 mg/l (Rat)

Primary irritant effect:

On the skin:

Irritant to skin and mucous membranes.

Cement has a skin and mucous irritant effect. Dry cement in contact with moist skin or skin in contact with moist or wet cement may lead to different irritant and inflammatory skin reactions, e. g. As redness and cracking. Prolonged contact in combination with abrasion can cause serious skin damage, see section 16 literature [4].

On the eye:

Strong irritant with the danger of severe eye injury.

In the in vitro test showed Portland cement clinker varying degrees of impact on the cornea. The calculated "irritation index" is 128. Direct contact with cement may lead by mechanical reaction, irritation and inflammation to corneal damage. Direct contact with larger amounts of dry or wet cement may cause effects ranging from moderate eye irritation to serious eye damage and blindness, see Section 16 References [11] and [12].

Sensitization:

Sensitisation possible through skin contact.

Specific target organ toxicity after single exposure:

Cement dust exposure may cause irritation of the respiratory system. Coughing, sneezing, and shortness of breath may be the result if exposure above the occupational exposure limit, see Section 16 References [1].

Specific target organ toxicity after repeated exposure:

Long term exposure to respirable dust in excess of occupational exposure limit may result in coughing, shortness of breath and chronic obstructive changes in the respiratory tract. At low concentrations, no chronic effects were observed, see section 16 literature [17]. Based on the available data, the classification criteria are not fulfilled.

Cement may aggravate existing skin disorders, eye and respiratory tract, e. g. with emphysema or asthma.

Subacute to chronic toxicity:

The contact with wet cement may cause skin eczema on some individuals. This can be triggered either by the pH (irritant contact dermatitis) or by immunological reaction of water soluble chromium(VI) (allergic contact dermatitis), see section 16 literature [5] and [13].

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

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CMR effects (carcinogenity, mutagenicity and toxicity for reproduction): A causal relationship between cement and cancer has not been established. There is no evidence for germ cell mutagenicity or reproductive toxicity, see section 16 References [1] [14-16].

11.2 Practical experience

No further relevant information available.

11.3 General comments

See section 16 (literature and references).

12 Ecological information

12.1 Toxicity

The product was not investigated. The statement is derivated from the properties of the single components.

65997-15-1 Portland cement clinker		
LC50	- mg/l (Water flea - daphnia magma) (low effect [6,8])	
	- mg/l (Algae - selenastrum coli) (low effect [7,8])	
	- mg/l (Sediments) (low effect [9])	
7778-18-9 Calcium su	Iphate, various hydrates CaSO₄ x (0 - 2) H₂O	
EC50	> 790 mg/kg (Activated sludge organisms) (OECD 209)	
EC50 (48h)	> 79 mg/l (Water flea - daphnia) (OECD 202) LIMIT-Test	
EC50 (96h)	3200 mg/l (Algae - navicula seminulum)	
LC50 (48h)	>1910 mg/l (Water flea - ceriodaphnia dubia)	
LC50 (96h freshwater)	> 79 mg/l (Algae) (OECD 201) LIMIT-Test	
LC50 (96h seawater)	> 79 mg/l (Japanese rice fish - oryzia latipes) (OECD 203) LIMIT-Test	
LC50 (96h)	>1970 mg/l (Fat head minnow - pimephales promelas)	

12.2 Persistence and degradability

Anorganic product, is not removable from water by biological cleaning process

12.3 Bioaccumulative potential Does not accumulate in organisms

12.4 Mobility in soil

Slightly soluble

Ecotoxical effects:

7778-18-9 Calcium sulphate, various hydrates CaSO₄ x (0 - 2) H₂O

NOEC (21d) 360 mg/l (Water flea - daphnia magma)

Behaviour in sewage processing plants:

No further relevant information available.

Type of testEffective concentrationMethodAssessmentNo further relevant information available.

Remark:

Ecotoxicological tests with Portland cement on Daphnia magna (US EPA, 1994a, see Section 16 References [6]) and Selenastrum Coli (US EPA, 1993, see section 16 literature [7]) have shown (Contd. on page 12)



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little toxicological effect. Therefore, the LC50 and EC50 values could not be determined, see section 16 literature [8]. There were also no toxic effects on sediments are found, see section 16 literature [9]. The addition of large quantities of cement in water can cause a pH increase and thus be toxic to aquatic life under special circumstances.

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable. **vPvB:** Not applicable.

12.6 Other adverse effects

No further relevant information available.

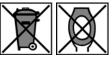
Literature

See section 16 (literature and references).

13 Disposal considerations

13.1 Waste treatment methods

Recommendation



Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Gather dry, store in labeled containers and re-use if possible, taking into account the maximum storage time or mix residual amounts while avoiding any skin contact and exposure to dust with water. Moisture products or product slurry to harden and dispose of according to local regulatory regulations.

	European waste catalogue		
16 03 03* Inorganic wastes containing dangerous substances		Inorganic wastes containing dangerous substances	
17 09 04 Mixed construction and demolition wastes other than those mentioned in 17 0 09 02 and 17 09 03			
15 01 01 Paper and cardboard packaging		Paper and cardboard packaging	

16 03 03 for residual amounts of unprocessed product

- 17 09 04 for the water mixed and setted product
- 15 01 01 for the completely emptied packaging

13.2 Uncleaned packaging

Recommendation:

Disposal must be made according to official regulations. Recycle only completely emptied packaging.

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14.1 UN-Number ADR, ADN, IMDG, IATA	Void
14.2 UN proper shipping name ADR, ADN, IMDG, IATA	Void
14.3 Transport hazard class(es)	
ADR, ADN, IMDG, IATA Class	Void
14.4 Packing group ADR, IMDG, IATA	Void
14.5 Environmental hazards Marine pollutant:	No
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Anne of MARPOL73/78 and the IBC Code	ex II Not applicable.

15 Regulatory information

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

National regulations:

Biozide ingredients (98/8/EG):

None of the ingredients is listed.

Waterhazard class:

Water hazard class 1 (Self-assessment): slightly hazardous for water.

Other regulations, limitations and prohibitive regulations:

•REACH Regulation EC 1907/2006 (REACH), Annex XVII No. 47 (chromium VI - compounds). •Regulation about the European waste directory (Waste Regulation).

Technical Rules for Hazardous Substances 900 - Workplace exposure limits (TRGS 900, Germany)

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

16 Other information

Reasons for changes: * Data compared to the previous version altered.

Relevant phrases

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

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H335 May cause respiratory irritation.

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Advice for instructions:

Additional trainings, which go beyond the prescribed training in activities involving hazardous substances are not required.

Literature

[1] Portland Cement Dust-Hazard assessment document EH75/7, UK Health and Safety Executive, 2006: http://www.hse.gov.uk/pubns/web/portlandcement.pdf.

[2] Technische Regel für Gefahrstoffe "Arbeitsplatzgrenzwerte", 2009, GMBI Nr.29 S.605.

[3] MEASE 1.02.01 Exposure assessment tool for metals and inorganic substances, EBRC Consulting GmbH für Eurometaux, 2010

[4] Observations on the effects of skin irritation caused by cement, Kietzman et al, Dermatosen, 47, 5, 184-189 (1999).

[5] Epidemiological assessment of the occurrence of allergic dermatitis in workers in the construction industry related to the content of Cr (VI) in cement, NIOH, Page 11, 2003.

[6] U.S. EPA, Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms, 3rd ed. EPA/600/7-91/002, Environmental Monitoring and Support Laboratory, U.S. EPA, Cincinnati, OH (1994a).

[7] U.S. EPA, Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, 4th ed. EPA/600/4-90/027F, Environmental Monitoring and Support Laboratory, U.S. EPA, Cincinnati, OH (1993).

[8] Environmental Impact of Construction and Repair Materials on Surface and Ground Waters. Summary of Methodology, Laboratory Results, and Model Development. NCHRP report 448, National Academy Press, Washington, D.C., 2001.

[9] Final report Sediment Phase Toxicity Test Results with Corophium volutator for Portland clinker prepared for Norcem A.S. by AnalyCen Ecotox AS, 2007.

[10] TNO report V8801/02, An acute (4-hour) inhalation toxicity study with Portland Cement Clinker CLP/GHS 03-2010-fine in rats, August 2010.

[11] TNO report V8815/09, Evaluation of eye irritation potential of cement clinker G in vitro using the isolated chicken eye test, April 2010.

[12] TNO report V8815/10, Evaluation of eye irritation potential of cement clinker W in vitro using the isolated chicken eye test, April 2010.

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Contact:	
Dr. Klaus Ritter	
Abbreviations and acronyms:	
	transport des marchandises dangereuses par chemin de fer (Regulation gerous Goods by Rail)
ICAO: International Civil Aviation Organisation	
MAK: Maximale Arbeitsplatz-Konzentration (Germany)	(maximum concentration of a chemical substance in the workplace, Austria
PBT: persistent, bioaccumulative and toxic pro	
vPvB: very persistent, bioaccumulatice proper	
International Carriage of Dangerous Goods by	
IMDG: International Maritime Code for Danger	rous Goods
IATA: International Air Transport Association	and a share of the state of the second state o
GHS: Globally Harmonised System of Classifi	0
EINECS: European Inventory of Existing Com ELINCS: European List of Notified Chemical S	
CAS: Chemical Abstracts Service (division of t	
DNEL: Derived No-Effect Level (REACH)	ine American Onemical Obeloty)
PNEC: Predicted No-Effect Concentration (RE	ACH)
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
Skin Irrit. 2: Skin corrosion/irritation, Hazard C	ategory 2
Eye Dam. 1: Serious eye damage/eye irritation	
Eye Irrit. 2: Serious eye damage/eye irritation,	
Skin Sens. 1: Sensitisation - Skin, Hazard Cat	
STOT SE 3: Specific target organ toxicity - Sir	igle exposure, Hazard Category 3
Further information:	
	sheet describe the safety requirements of our product and
The information in this safety data a	sheet describe the safety requirements of our product and

based on our current state of our knowledge. They provide no assurance of product quality. Existing laws, ordinances and regulations, including those that are not mentioned in this data sheet must be observed by the recipient of our products in their own responsibility.

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