

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

1.1. Product identification:

Denomination: White Portland cement CEM I 52,5 R

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

General-purpose cement is used at industrial systems for the preparation of concrete, mortar, cement paste and other building mixtures as well as for manufacturing of construction products.

Cement and hydraulic binders (mixtures) made on its basis are used by industry-based users, professionals (qualified users) and individual consumers. They are used in dry and wet forms. Identified uses of cement and mixtures containing cement include product use as specified in Section 16.b.

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

- Manufacturer responsible for marketing the product in the EC: ROYAL EL MINYA CEMENT,7 Mostafa Refaast St. Sheraton Heliopolis Complex 1135- Cairo, Egypt Tel.: +2 22678627 - 0222678628
 Fax: +2 22678628
 E-mail: info@RoyalCement.com
- Representative in Poland: ROYAL CEMENT EU Sp. z o.o., ul. Fabryczna 8, 83-032 Pszczółki <u>www.royalcement.eu</u>; Tel.: +48 503 440 770, E-mail: info.eu@royalcement.com

1.4. Emergency telephone number:

- Institute of Occupational Medicine:+ 48 (0) 69-45 00 11 6153 (24/7)
- Toxicological information in Poland: (22) 619 08 97 and (22) 619 66 54 (24/7)
- Fire brigade: 998
- Ambulance services: 999
- State emergency telephone number: **112**

SECTION 2. Hazards identification.

2.1 Classification of the substance or mixture:

Hazard class	Hazard category	Hazard statements
Skin irritation	2	H315 Causes skin irritation
Serious eye damage / eye irritation	1	H318 Causes serious eye damage
Allergic skin reaction	1B	H317 May cause allergic skin reaction
Specific target organ toxicity – single exposure; respiratory tract irritation	3	H335 May cause respiratory irritation

The mixture was classified according to EU regulations on the basis of its composition, physical and chemical properties, and information obtained from professional literature.

2.2 Label elements:

According to Regulation (EC) No 1272/2008

Pictograms:



Page 4 of 16 Prepared on: 29/04/20 Version 02



Hazard

statements

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

Precautionary statements:

- P102: Keep out of reach of children
- P280: Wear protective gloves/protective clothing/eye protection/face protection
- P261 Avoid breathing dust
- P302+352+333+313: IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention
- P305+351+338+310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Immediately call a POISON CENTER/doctor.

P304+340+312: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

Disposal

P501: Dispose of contents (container) to an authorised waste collection company.

Additional information:

Follow expiry date and storage conditions specified by the manufacturer. The mixture contains chromium reducer causing soluble chromium (VI) to be reduced below 2 ppm (in relation to total cement dry mass).

If expiry date is exceeded or the mixture is stored improperly, the reducer's performance may be reduced and skin sensitisation may occur.

2.3 Other hazards

The mixture does not meet the PBT or vPvB criteria pursuant to REACH, Annex XII [Regulation (EC) No 1907/2006].

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3. Composition/information on ingredients.

3.1. Substances.

Not applicable – the product is a mixture.

3.2. Mixtures.

General-purpose cement complies with EN 197-1:2011. It is a mixture containing Portland cement clinker. Other components do not affect the mixture classification.

Substance	CAS	EINECS No	CLP Classification	%



Safety Data Sheet

Page 5 of 16 Propared on

Ŵ	Royal Cemer	ICEU a	according to Regulation 1907/2006/EEC	29/04/2 Version (0
	Portland cement clinker ^{*)} no registration obligation acc. to Section 15.1.	65997-15-1	266-043-4	Skin Irrit. 2 H315, Skin Sens. 1 H317 ^{**)} , Eye Dam. 1 H318, STOT SE 3 H335	95-100
e (established: calcium su CAS: 14808-60-7) < 0	ulphate (CAS: 7778 .05%.	:-18-9) < 6%; magnesium ox	ch occupational exposure lii kide CAS; 1309-48-4 <2%; s	silicon dioxide
	suant to Annex V of Re			nker is exempt from registra	tion.
		SECT	FION 4. First aid measur	es.	
•	Eye contact – In least 15 minutes. hospital to seek o Skin contact – In	nmediately rinse Remove contact phthalmologist's a nmediately wash	lenses. Do not rub your e attention. polluted skin with soapy v	, with clean, fresh runnir eyes to avoid cornea dam water with neutral pH or n nents having contact with	nage. Go to the
•	have large amour Inhalation – Move	not induce vomit It of water to drink the victim to free	ing. If the victim is consci k. Drink by sipping. Imme sh air. Get rid of dust fron	ous, rinse mouth with wa diately contact the doctor n nose and throat and see	ek
4			other symptoms do not su effects, both acute and s	ubside, contact the doctor delayed:	
•	dust may cause p	ermanent deterio	ration of vision.	uity and eye pollution with	
	Skin contaminat	ion – skin irritatio	n and redness_drv or we	t cement may cause sens	sitive persons

- Skin contamination skin irritation and redness, dry or wet cement may cause sensitive persons to experience allergic reactions.
- Inhalation dryness or swelling in nostrils or throat, prolonged inhalation of cement dust may cause permanent damage to nasal or pharyngeal mucosa as well as pulmonary and respiratory diseases.
- **Environment** at normal use cement causes no harm to the environment.

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

This safety data sheet and an eye wash station should be available where cement is used. In the event of medical attention provide the doctor with the safety data sheet.

SECTION 5. Fire fighting measures.

5.1. Extinguishing media.

General-purpose cements are non-flammable. In the event of fire in the environment use extinguishing media suitable for this environment. For cooling of cement tanks usewater jets.

5.2. Special hazards arising from the substance or mixture.

General-purpose cements as mixtures are non-flammable and non-combustible, and they do not induce or sustain combustion of other materials.

5.3. Advice for fire-fighters.

Cement is non-flammable and non-combustible, thus no special firefighting equipment is required. In the event of fire in the environment, packagings may be burned resulting in the release of heated cement dust – it is required to wear protective equipment to protect skin and eyes.

SECTION 6. Accidental release measure



6.1. Personal precautions, protective equipment and emergency procedures.

- Protect eyes and skin, do not inhale dust. Follow general safety rules (specified in Section 7) and use protective clothing (specified in Section 8).
- Isolate persons without protective clothing from the affected place.
- No special procedures are required for rescuers. At heavy dust concentration use respiratory protection measures.

6.2. Environmental precautions

- Avoid actions causing cement dust to float in the air.
- Protect dry and wet cement against its release to the sewage system and to surface and ground water.
- If large amounts of cement enter into the natural environment, notify proper emergency services.

6.3. Methods and material for containment and cleaning up

- Collect dry cement to a container using a mechanical method without increasing dust concentration (do not use compressed air). The remaining dust remove by sucking with an industrial vacuum cleaner with a filter ((HEPA and HEPA, EN 1822-1:2009 or similar) which does not increase dust concentration (do not use brushes), or wet wipe off.
- Hardened wet cement should be collected mechanically and put into a special container. Dry it before disposal.
- Dry and clean cement may be handed over for use. The remaining waste should be handed over for disposal according to the description in Section 13.
- During disposal and cleaning use protective equipment and clothing.

6.4. Reference to other sections.

- Section 7 in terms of precautions concerning safe handling.
- Section 8 in terms of personal protective equipment.
- Section 13 in terms of waste disposal methods.

SECTION 7. Handling and storage

7.1. Precautions for safe handling.

- For personal protective equipment follow the recommendations specified in Section 8.
- For general occupational health and safety, avoid skin contact with the preparation and eye pollution. Exercise preventive skin protection by using barrier creams. Wash hands after any completed work. Wash polluted clothing before reuse. Do not eat, drink or smoke during work.
- In terms of workplace protection use proper room and workstation ventilation. Do not carry out actions leading to cement dusting, and at heavy dust concentration wear face mask and safety goggles. When dosing cement for mortars or concrete, use mixers with closed cover.
- In terms of environmental protection, for removal of pollutants and washing of equipment use systems with periodically cleaned sedimentation tanks.

7.2. Conditions for safe storage, including any incompatibilities

- Packed cement should be stored in original packaging in a dry, cool and ventilated room with no draught. Protect against water and moisture. Packagings should be stored in a stable and secure manner on supports protecting cement against moisture from the ground and pollution.
- Bulk cement should be stored in special tight silos, tanks or tankers. In their storage areas and during their handling and cleaning use specific safety measures and special protective equipment. Cement may adhere to walls and suddenly slide down, which may lead to burying or suffocation.

Reduction and control of soluble chromium (VI) content

Pursuant to the principles of Section 15, the reduction properties of cement containing Cr(VI) reducers change over time. Cement packaging and delivery documents should contain information on the cement expiry date determined on the basis of the reducer use time under conditions complying with the conditions specified in Section 7.



Cement before expiry date and stored in accordance with the recommendations should ensure the reducer properties to be maintained and the soluble Cr(VI) content to be kept below 2 ppm in relation to the total cement dry mass (0.0002% acc. to EN 196-10).

□ When the expiry date set out by the manufacturer is exceeded or if cement is stored under improper conditions (e.g. when it is exposed to moisture), the chromium reducer may lose its performance, which may lead to enhanced irritation and allergic reactions after skin contact.

7.3. Specific end use(s).

□ No relevant information

SECTION 8. Exposure controls/personal protection.

8.1. Control parameters

- DNEL inhalation (8 h): 2 mg/m³.
- DNEL skin: not applicable.
- DNEL consumption: no reference.
- DNEL refers to respirable dust. The risk estimation tool (MEASE) referred to inhaled fraction. In conclusions and risk assessment analysis, a proper safety margin was used.
- On the basis of the available testing and experience, DNEL for skin exposure is not available. As cement is classified as a irritating material, skin and eye contact should be reduced as far as possible.
- Image: PNEC water: not applicable.
- Dependence PNEC deposit: not applicable.
- Device the solution of applicable.
- Risk analysis for the environment is based on the impact on water pH. pH variations in surface and ground water may occur, however pH value should not exceed 9.
- According to the Regulation of the Minister of Labour and Social Policy of 6 June 2014 on highest permissible intensity and concentration occupational limits of noxious agents (Journal of Laws, item 817), state requirements concerning the content of dust are as follows:
 - Total cement dust 6 mg/m³.
 - Respirable cement dust 2 mg/m^3 .

8.2 Exposure control:

For each identified use (PROC), the user may select option A) or B) as applicable. When one option is selected, an analogous option should be selected in table in Section 8.2.2. "Personal protective equipment" – respiratory protective equipment. Only A)-A) and B)-B) combinations are possible.

8.2.1 Relevant technical control measures:

Measures reducing dust concentration and preventing dust from spreading in the environment, such as dedusting, ventilation and dry cleaning methods, which do not cause increase in dust concentration.



Use	PROC [*]	Exposure	Technical equipment	Performar ce
Industrial	2, 3		Not required	-
production/forming of	14, 26	l eí	A) Not required	-
hydraulic binders and	,	shi	or	
construction materials		a v	B) local exhaust ventilation system	78%
	5, 8b, 9	Exposure period up to 480 min for a shift, 5 shifts per week	A) Not required	-
		r mir	or	
		80 be	B) local exhaust ventilation system	78%
Industrial (indoor or	2	o 4 ifts	Not required	-
outdoor) use as dry	14, 22, 26	shi s	A) Not required	-
hydraulic		5 5	or	
construction material		irio	B) local exhaust ventilation system	78%
	5, 8b, 9	e e	A) Not required	58%
		nre	or	
		SOC	B) local exhaust ventilation system	78%
Industrial use as	7		A) Not required	-
mortar – binder			or	
			B) local exhaust ventilation system	78%
	2, 5, 8b, 9, 10, 13, 14		Not required	-
Professional (indoor	2		A) Not required	-
or outdoor) use as dry			or	
hydraulic			I local exhaust	72%
construction material			ventilation system	
	9, 26		A) Not required	-
			or	
			Iocal exhaust	72%
			ventilation system	720/
	5, 8a, 8b, 14		B) local exhaust ventilation system	72%
	19		Use of local measures impossible.	-
			Use only in well-ventilated rooms	
			or outdoors	
Professional use as	11		A) Not required	
mortar - binder			, .	-
morear binder			or 16 local exhaust	78%
			ventilation	10/0
			system	
	2, 5, 8a, 8b,			-
	9, 10, 13,		Not required	
	14, 19			



General:

8.2.2. Personal protective equipment

Safety Data Sheet according to Regulation 1907/2006/EEC

Before work on cement apply barrier cream and use it on regular basis. Before breaks and after

Page 6 of 16 Prepared on: 29/04/20 Version 02



Use PROC ^{*)} Exposure Protective measure Protection



Page 7 of 16 Prepared on: 29/04/20 Version 02

				efficiency
Industrial	2, 3	×	Not required	-
production/forming of	14, 26	ee	A) P1 mask (FF, FM)	APF = 4
hydraulic binders and		>	B) not required	
construction materials	5, 8b, 9	bel	A) P2 mask (FF, FM)	APF = 10
		ts	B) P1 mask (FF, FM)	APF = 4
Industrial (indoor or	2	shif	Not required	-
outdoor) use as dry	14, 22, 26	2 2	A) P1 mask (FF, FM)	APF = 4
hydraulic		Ť,	B) not required	
construction	5, 8b, 9	shi	A) P2 mask (FF, FM)	APF = 10
material		σ	B) P1 mask (FF, FM)	APF = 4
Industrial use as	7	for	A) P1 mask (FF, FM)	APF = 4
mortar – binder		. <mark>E</mark>	B) not required	
	2, 5, 8b, 9, 10, 13, 14	Exposure period up to 480 min for a shift, 5 shifts per week	Not required	-
Professional	2	0 4	A) P1 mask (FF, FM)	APF = 4
(indoor or outdoor)	9, 26	р Т	A) P2 mask (FF, FM)	APF = 10
use as dry		d u	B) P1 mask (FF, FM)	APF = 4
hydraulic	5, 8a, 8b, 14	ļ.	A) P3 mask (FF, FM)	APF = 20
construction		bei	B) P1 mask (FF, FM)	APF = 4
material	19	e	P2 mask (FF, FM)	APF = 10
Professional use	11	ns	A) P1 mask (FF, FM)	APF = 4
as mortar – binder		od	B) not required	
	2, 5, 8a, 8b,	Ш		-
	9, 10, 13,		Not required	
	14, 19			

* PROC includes identified uses specified in Section 1.2.

□ Thermal hazards

Not applicable.

8.2.3. Environmental exposure control

Environmental exposure control in relation to cement emission to the air should comply with the available technologies and regulations for dust emissions.

- Air: Cement dust emission to the air should be limited according to the available technology and should be lower than the applicable maximum permissible values of airborne dust content.
- Water: cement should not penetrate into the sewage system or surface or ground water. Do not drain cement to the sewage system or water tanks to avoid high pH. If pH exceeds 9, ecotoxicological effects may occur in the aquatic environment.
- Soil and ground: No exposure control measures are required for ground exposure.

SECTION 9. Physical and chemical properties.

9.1 Information on basic physical and chemical properties

Information pertaining to the entire mixture

- (a) Physical state: solid, powder
- (b) Colour: white
- (c) Odour: Odourless
- (d) Melting point/freezing point: > 1250°C
- (e) Boiling point or initial boiling point and boiling range: Not applicable, melting point under normal atmospheric conditions > 1250°C
- (f) Flammability (of solid, gas): Not applicable; non-flammable solid
- (g) upper/lower explosion limit: Not applicable



- (h) Flash point: Not applicable
- (i) Autoignition temperature: Not applicable (no components subject to autoignition)
- (j) Decomposition temperature: Not applicable
- (k) pH: (t = 20°C in water, water-material ratio 1:2): 11–13.5
- (I) Viscosity: Not applicable
- (m) Solubility in water (T = 20° C): low (0.1–1.5 g/l)
- (n) Partition coefficient (n-octanol/water): Not applicable non-organic mixture
- (o) Vapour pressure: Not applicable
- (p) Relative density: 2.75–3.20; Bulk density: 0.9–1.5 g/cm³
- (q) Vapour density: Not applicable
- (r) Particle characteristics: Particle size: 5-30 µm

9.2 Other information

Information with regard to physical hazard classes: Not relevant

SECTION 10. Stability and reactivity.

10.1 Reactivity.

Cement is a hydraulic material. After contact with water a desired reaction occurs. Cement is set and creates a solid mass which does react with the environment.

10.2 Chemical stability

Cement is stable. If it is properly stored in dry condition (see Section 7), it is compatible with the majority of construction materials.

Avoid contact with incompatible materials:

- Moist cement is alkaline and incompatible with acids, ammonium salts, aluminium and other base metals.
- Cement is soluble in hydrofluoric acid, releasing corrosive gas silicon tetrafluoride.
- In reaction with water, cement creates silicates and calcium hydroxide. Cement calcium silicates may react with strong oxidisers, such as fluoride, boron trifluoride (BF₃), chlorine trifluoride (CIF₃), magnesium trifluoride (MnF₃) and oxide difluoride (OF₂).

10.3 Possibility of hazardous reactions

Cement does not result in hazardous reactions.

10.4 Conditions to avoid

Moisture during storage may lead to the development of lumps and loss of product quality.

10.5 Incompatible materials

Acids, ammonium salts, aluminium or other bare metals. Uncontrolled addition of powdered aluminium to wet cement causes the release of hydrogen.

10.6 Hazardous decomposition products

None, cement does not decompose to hazardous components

SECTION 11. Toxicological information.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008



Page 9 of 16 Prepared on: 29/04/20 Version 02

Hazard class	Cat.	Effect	Source
Acute toxicity – skin	-	Test, rabbit, 24-hour contact, 2000 mg/kg of body mass – no injury. On the basis of the available data, classification is not	(2)
Acute toxicity	-	required. No acute toxicity was observed.	(9)
 respiratory tract 	-	On the basis of the available data, classification is not required.	(9)
Acute toxicity – oral	-	As a result of literature analysis, no acute oral toxicity pertaining to general-purpose cement was observed. On the basis of the available data, classification is not required.	Literature analysis
Skin	2	In contact with wet skin cement may cause the	(2)
corrosivity/irritation		skin to become thicker, cracked, folded. Prolonged contact combined with rubbing may produce burns.	Use experience
Serious eye damage / eye irritation	1	Cement acts on cornea in various ways. Calculated irritation index is 128. General-purpose cement contains variable amounts of Portland clinker and additives, including anhydrous gypsumplaster and silica. Direct contact with cement may lead to mechanical damage to cornea, immediate or delayed irritation, or inflammation. Direct contact with increased amount of dry cement or splash with wet cement may cause intermediate irritation (e.g. conjunctivitis) and even chemical burns or blindness.	(10), (11)
Allergic skin reaction	1B	It may be caused by both high pH, which results in irritation after prolonged contact, or immune response to soluble Cr(VI) which may cause allergic skin reaction. Reaction form may be different – from small rash to serious inflammation or a combination of both of these effects. If cement contains active reducer of soluble chromium(VI) and the period of its use is not exceeded, the aforementioned effects should not occur (reference 3).	(3), (4), (17)
Allergic respiratory reaction	-	No allergic reactions to the respiratory tract were noted. On the basis of the available data, classification is not required.	(1)
Germ cell mutagenicity	-	Not found. On the basis of the available data, classification is not required.	(12), (13)
Carcinogenicity	-	No accidental connections of Portland cement exposure and carcinogenicity were found. Literature provides no information on Portland cement carcinogenicity. Portland cement is not classified as carcinogenic for humans. On the basis of the available data, classification is not required.	(1) (14)



toxicity		required.	noted during
			use.
STOT – single	3	Portland cement dust may irritate throat and respiratory	(1)
exposure		tract. Due to exposure above the set limits cough,	
		running nose and shallow breathing may occur. The tests indicate that exposure to cement dust may restrict respiratory tract functioning. The tests carried out to date, however, are sufficient to unambiguously determine the exposure level causing negative effect.	
STOT – repeated exposure	-	Chronic Obstructive Pulmonary Disease (COPD) may occur. Increased effect may occur upon exposure to high dust concentration. No chronic effects upon exposure to low dust concentration were observed. On the basis of the available data, classification is not required.	(15)
Aspiration hazard	-	Not applicable for cements – they are not used as aerosols.	

Apart from skin irritation, Portland clinker and general-purpose cements have the same toxicological and ecotoxicological properties.

Influence on existing diseases

Inhalation of cement dust may lead to worsening of condition of persons suffering from respiratory tract diseases and/or other diseases, such as emphysema or asthma and/or existing skin or eye diseases.

11.2 Information on other hazards

There is no additional information

SECTION 12. Ecological information.

12.1 Toxicity

Do not let the mixture or its solutions to enter into the sewage system, surface water or soil. Cement is not considered harmful to the environment. Ecotoxicological test of Portland cement used on *daphnia magna* and *selenastrum coli* showed minor ecotoxicological effect. As a result it was impossible to determine LC50 and EC50. Moreover, no toxic impact of deposit was found. Introduction of higher amounts of cement into water, however, may lead to pH increase. As a result in specific conditions it may be toxic to aquatic organisms.

12.2 Persistence and degradability

Not applicable; cement is a mineral, non-organic material. When hardened, it poses no risk of toxicity.

12.3 Bioaccumulative potential

Not applicable; cement is a mineral, non-organic material. When hardened, it poses no risk of toxicity.

12.4 Mobility in soil

Not applicable; cement is a mineral, non-organic material. When hardened, it poses no risk of toxicity.

12.5 Results of PBT and vPvB assessment

Not applicable; cement is a mineral, non-organic material. When hardened, it poses no risk oftoxicity. The mixture does not meet the PBT or vPvB criteria.

12.6. Endocrine disrupting properties.

Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0,1\%$.

12.7 Other adverse effects



□ Not applicable – no available information.

SECTION 13. Disposal considerations.

13.1 Waste treatment methods.



	SECTION 15. Regulatory information.
	4.7. Maritime transport in bulk according to IMO instruments ot applicable.
Ν	ot applicable.
	4.6. Special precautions for user
	4.5. Environmental hazards ot applicable.
	ot applicable.
	4.4. Packing group
	ot applicable.
	4.3. Transport hazard class(es)
	4.2. UN proper shipping name ot applicable.
	ot applicable.
	4.1. UN number or ID number
	onditions set out in Section 8 no special conditions are required.
	oods (IMDG, IATA, ADR/RID). No special classification is required. Apart from the
<u> </u>	ement is not governed by international regulations concerning transport of dangerous
	SECTION 14. Transport information.
	Empty the packaging and process it according to national legislation.
	Packing Waste code (EWC): 15 01 01 Paper and cardboard packaging
_	not hazardous.
	Store and manage the set product as concrete rubble. In terms of reactivity concrete waste is
	repair).
	concrete, bricks, panels, ceramics – concrete waste and concrete rubble from dismantling and
	from mineral binder products (waste concrete and concrete sludge) or - 17 01 01 Waste from construction materials and components and road infrastructure (e.g.
	- 10 13 14 Waste from production of mineral binders (including cement, lime and plaster) and
	Waste code (EWC):
	Product – mixed with water, bonded
	water tanks and channels. Then handle with waste as with bonded product.
	Embed, if possible, or leave to bind, avoid discharging to sewage systems, drainage systems and
П	Possible use without exceeding dust concentration limits. Product – semi-wet
	Collect waste and keep them dry. Mark containers. Possible reuse if compliant with expiry date.
	EWC Classification: 10 13 06 [particulates and dust (except 10 13 12 and 10 13 13)]
	Product – unused dry residue
	over for use in automatic and closed production processes.
	Afterwards it may be subject to repeated reduction of Cr(VI) content using a reducer or handed
	EWC Classification: 10 13 99 (wastes not otherwise specified) It should not be used – should be recovered and stored according to national regulations.
	0.0002%:

Cement is a mixture. Mixtures are excluded from registration obligation. Clinker is excluded from registration obligation [REACH, art. 2.7 (b) and Annex V.10].

Marketing of cement is controlled due to content of soluble chromium (VI) (REACH, Annex XVII, section 47):



7

Industrial dusting

Safety Data Sheet according to Regulation 1907/2006/EEC

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006

Page 12 of 16 Prepared on: 29/04/20 Version 02

European law notice

concerning REACH Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 Π on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. 15.2. Chemical safety assessment Chemical safety report has not been developed. Information contained in the Safety Data Sheet does not constitute user occupational risk assessment required by work safety regulations. If the product is used at work, national OHS regulations should be met. **SECTION 16. Other information. 16.1 Revision history** Adaptation of the safety data sheet to the requirements of Regulation (EU) 2020/878, revision of sections: 2, 7, 8, 9, 11, 12, 14 Section 15: update of legislation 16.2 Identified use and its categories and descriptors The table below presents an overview of all relevant identified uses of cement and hydraulic binders containing cement. All uses are presented in groups in consideration with health and environment exposure. For each use proper risk management and control methods are provided (see Section 8) which should be adopted by the user of cement or hydraulic binders containing cement, so that any potential exposure does not exceed the permissible limits. PROC Identified use - description of use Professional/in Productio n of dustrial use of Construction material 2 Use in a closed process with occasional, controlled exposure Х Х 3 Use in a closed batch process (synthesis or production) Х Х 5 Mixing in batch processes of production of mixtures or Х Х products (multi-stage and/or significant contact).

Х



8a	Handling of the substance or mixture (loading/unloading) to/from vessels / large container in rooms not intended for this purpose		Х
8b	Handling of the substance or mixture (loading/unloading) to/from vessels / large container in rooms intended for this purpose	Х	Х
9	Handling of the substance or mixture to small containers (using a dedicated filling line with weighing)	Х	Х
10	Brush or roller application		Х
11	Industrial dusting		Х
13	Processing of industrial products by soaking or flooding		Х
14	Production of mixtures or products by tabletting, pressing, extrusion, granulation	Х	Х
19	Manual mixing during which close contact with substance takes place. Only personal protective equipment are available		Х
22	Potentially closed processing operations with minerals/metals at elevated temperature. Industrial conditions		Х
26	Storage of solid non-organic substances at a given temperature	Х	Х

16.3. Abbreviations and acronyms

- □ Hazard classes and categories for substances comprising the mixture according to Section 3.2.
- Skin Irrit. 2 Skin corrosivity/irritation cat. 2

Skin Sens. 1B – Allergic skin reaction cat. 1B

Eye Dam. 1 - Serious eye damage / eye irritation cat. 1

STOT SE 3 – Specific target organ toxicity (single exposure), cat. 3

STOT RE 2 - Specific target organ toxicity (repeated exposure), cat. 2

□ Hazard statements for substances comprising the mixture according to Section 3.2.:

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

H317: May cause allergic skin reaction

H373: May cause damage to organs through prolonged or repeated exposure

□ Other abbreviations:

ACGIH American Conference of Industrial Hygienists ADR/RID European Agreements on the transport of Dangerous goods by Road/Railway APF Assigned protection factor CAS Chemical Abstracts Service CLP Classification, labelling and packaging [Regulation (EC) No 1272/2008] COPD Chronic Obstructive Pulmonary Disease DNEL Derived No-Effect Level EC50 Half maximal effective concentration ECHA European Chemicals Agency EINECS European Inventory of Existing Commercial chemical Substances EPA Type of high efficiency air filter ES Exposure scenario EWC European Waste Catalogue FF P Filtering facepiece against particles (disposable) FM P Filtering mask against particles with filter cartridge

GefStoffV Gefahrstoffverordnung



Page 16 of 16 Prepared on: 29/04/20 Version 02

Classification according to Regulation (EC) No 1272/2008	Classification procedure
Skin irritation 2; H315	Based on tests
Serious eye damage / eye irritation 1; H318	Based on tests
Allergic skin reaction 1B; H317	Use experience
STOT SE. 3; H335	Use experience