

Safety data sheet
according to 1907/2006/EC, Article 31

Revision: 10.08.2023

Version number 3

Date of the first version: 09.01.2019

SECTION 1: Identification of the substance/mixture and of the company/undertaking**· 1.1 Product identifier****· Trade name: AKRINOL Elastic****· Article number:** 2.000.037**· UFI:** 9M32-90U2-8002-71FP**· 1.2 Relevant identified uses of the substance or mixture and uses advised against**

For end use, cement and mixtures containing cement are used for preparation of construction materials and elements both for industrial /professional users (construction experts) as well as for private end users. Cement and mixtures containing cement are mixed with water, homogenized and transformed into desired construction material and construction element. Such remodelling procedures require adequate handling of dry (powder) material as well as the one mixed with water (cement paste, mortar or concrete).

· Life cycle stages

PW Widespread use by professional workers

C Consumer use

· Sector of Use

SU21 Consumer uses: Private households / general public / consumers

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

SU19 Building and construction work

· Product category PC1 Adhesives, sealants**· Process category** PROC19 Manual activities involving hand contact**· Environmental release category** ERC10a Widespread use of articles with low release (outdoor)**· Article category** AC4 Stone, plaster, cement, glass and ceramic articles**· Application of the substance / the mixture** Tile adhesive**· 1.3 Details of the supplier of the safety data sheet****· Manufacturer/Supplier:**

JUB d.o.o.

Dol pri Ljubljani 28

1262 DOL PRI LJUBLJANI

SLOVENIA

T: + 386 1 5884 183

F: + 386 1 5884 250

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· Further information obtainable from:

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F: +386 1 5884 227

E: laura.ucakar@jub.eu

1.4 Emergency telephone number:

UK Emergency number: 999

Emergency Action: In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department.

SECTION 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.

STOT SE 3 H335 May cause respiratory irritation.

2.2 Label elements
Labelling according to Regulation (EC) No 1272/2008

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

Hazard pictograms


GHS05 GHS07

Signal word Danger
Hazard-determining components of labelling:

Cement, portland, chemicals

Hazard statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

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.

P103 Read carefully and follow all instructions.

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- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P264 Wash thoroughly after handling.
 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.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Hazard description:**

Contact of skin with wet cement, fresh concrete or mortar can cause irritation, dermatitis and burns. It can cause damage on products made of aluminium and other non-precious metals.

- **Information concerning particular hazards for human and environment:**

Cement doesn't meet the criteria for PBT or vPvB in line with the Attachment XIII of UK REACH (Regulation 1907/2006/ES).

Cement dust can cause the irritation of respiratory organs.

When cement reacts with water, for instance during preparation of concrete or mortar, or when cement gets humid, a highly alkaline solution is created. Due to high alkalinity, wet cement can cause irritation of skin and eyes.

Also, it can cause allergic reaction of individuals due to content of soluble Cr (VI). When necessary, an agent for reducing the content of hexavalent chromium (chromium VI) below the level of 0.0002 % is added to cement.



- **2.3 Other hazards**

- **Results of PBT and vPvB assessment** Not applicable.
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Determination of endocrine-disrupting properties** Not applicable.

SECTION 3: Composition/information on ingredients

- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 14808-60-7 EINECS: 238-878-4	Quartz (SiO ₂)	50-75%
CAS: 65997-15-1 EINECS: 266-043-4	Cement, portland, chemicals  Eye Dam. 1, H318  Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	25-50%

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

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SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:**
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.2 Special hazards arising from the substance or mixture**
No further relevant information available.
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective clothing.
 - **6.2 Environmental precautions:**
In case of gas release or seepage into the ground inform responsible authorities.
Do not wash out cement into the sewage or drainage system nor in water bodies (e.g. water courses).
If possible, collect the scattered material in dry condition.
- Dry cement
Use dry methods, such as vacuum cleaning or vacuum hoovering (industrial portable devices equipped with filters with high efficiency of air cleaning (EPA and HEPA filters, EN 1822-1) or equivalent techniques) which do not cause dusting. Never use compressed air for cleaning.
The other option is dust removal, wet sweeping or by using water spray or jet (fine haze to avoid dusting in the air) and removal of mud.

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If this is not possible, remove mud with water (wet cement).

When wet or vacuum cleaning is not possible and only dry cleaning with brushes is possible, it must be ensured that workers wear adequate personal protective equipment and that spreading of dust is prevented.

Avoid inhalation of cement and contact with skin. Scattered material should be kept in a container. Later use is allowed. Prior to removal, solidification should be performed as described in CHAPTER 13.

Wet cement

Clean wet cement and store it in a container. Let the material dry and harden prior to removal, as described in CHAPTER 13.

Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**

Ensure adequate ventilation.

Dispose contaminated material as waste according to section 13.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling** No special precautions are necessary if used correctly.

· **Information about fire - and explosion protection:** No special measures required.

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

· **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:**

Keep container tightly sealed.

Store in dry conditions.

Control of water-soluble chromium VI content:

In case of cements to which a reducing agent for reducing soluble chromium (VI) is added in line with the regulations, the effectiveness of a reducing agent decreases with time. Cement bags and/or delivery documents contain data on packaging date, storage conditions and storage time (shelf life) in order to preserve the effectiveness of a reducing agent and consequently the content of soluble chromium VI below 0.0002 % of the total weight of ready-to-use dry cement in line with the EN 196-10 standard.

In case of inadequate storage (entry of humidity) or in case of changing storage area, the effectiveness of contained reducing agent can decrease early. For this reason, hypersensitivity in case of contact with skin cannot be excluded.

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Industrial uses of dry hydraulic binders and construction materials (inside, outside)

2,3	Not necessary
14,22,26	Not necessary or local device, 78 %
5,8b,9	Local device, 78%

--

Industrial uses of wet suspensions of hydraulic binders and construction materials

7	Not necessary or local device, 78
2,5,8b,9,10,13,14	Not necessary

--

Industrial uses of wet suspensions of hydraulic binders and construction materials (inside , outside)

2	Not necessary or general ventilation, 29%
9,26	Not necessary or local ventilation unit, 77%
5,8a,8b,14	Not necessary or local ventilation unit, 72%
19	Ventilation device isn't adequate, use only in well ventilated areas and outside

Professional uses of wet suspensions of hydraulic binders and construction materials

11	Not necessary or local ventilation unit, 77%
2,5,8a,8b,9,10,13,14,19	Not necessary

* PROC are identified uses and procedures described in Point 15.

· **Hand protection**

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Protective gloves that meet the criteria of BS EN 374.

Check protective gloves prior to each use for their proper condition.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

After use of gloves apply skin-cleaning agents and skin cosmetics.

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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- **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.

- **Eye/face protection**

Safety glasses

Protective goggles must comply with standard BS EN 166.

Goggles recommended during refilling

- **Body protection:** Use protective suit.

SECTION 9: Physical and chemical properties

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

- **General Information**

· Physical state	Solid
· Colour:	Grey
· Odour:	Characteristic
· Odour threshold:	Not determined.
· Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and boiling range	Undetermined.
· Flammability	Not determined.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	Not applicable.
· Decomposition temperature:	Not determined.
· pH	Not applicable.
· Viscosity:	
· Kinematic viscosity	Not applicable.
· Dynamic:	Not applicable.
· Solubility	
· water:	Soluble.
· Vapour pressure:	Not applicable.
· Density and/or relative density	
· Density:	Not determined.
· Relative density	Not determined.
· Vapour density	Not applicable.
· Particle characteristics	
See section 3.	

- **9.2 Other information**

- **Appearance:**

- **Form:** Powder

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· **Important information on protection of health and environment, and on safety.**

- **Ignition temperature:** Product is not selfigniting.
- **Explosive properties:** Product does not present an explosion hazard.

· **Information with regard to physical hazard classes**

- | | |
|--|------|
| · Explosives | Void |
| · Flammable gases | Void |
| · Aerosols | Void |
| · Oxidising gases | Void |
| · Gases under pressure | Void |
| · Flammable liquids | Void |
| · Flammable solids | Void |
| · Self-reactive substances and mixtures | Void |
| · Pyrophoric liquids | Void |
| · Pyrophoric solids | Void |
| · Self-heating substances and mixtures | Void |
| · Substances and mixtures, which emit flammable gases in contact with water | Void |
| · Oxidising liquids | Void |
| · Oxidising solids | Void |
| · Organic peroxides | Void |
| · Corrosive to metals | Void |
| · Desensitised explosives | Void |

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye damage.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**
STOT single exposure Cat.3
Cement dust can irritate throat and respiratory tract. Coughing, sneezing and trouble breathing can occur after exposures exceeding exposure limits for professional exposure.
In general, evidence clearly indicate that professional exposure to cement dust causes the decrease of respiratory function. However, the evidence currently available is not sufficient to confirm the connection between the dosage and reaction to such effects.
May cause respiratory irritation.
- **STOT-repeated exposure**
STOT repeated exposure
There exists indication for COPD (chronic obstructive pneumonia disease). The effects are acute due to high exposure. Chronic effects or effects in case of low concentration cannot be observed.
Based on available data, the criteria for classification are not fulfilled.
Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
Data on toxicological effects:
Hazard class/ Category - Effect

Acute toxicity - dermal
Limit test, rabbit, 24-hour exposure, 2.000 mg/kg of body weight – no mortality.
Based on available data, the criteria for classification are not fulfilled.

Acute toxicity - inhalation
Acute toxicity in case of inhalation is not detected.
Based on available data, the criteria for classification are not fulfilled.

Acute toxicity - oral
Based on studies of dust from cement oven, there are no signs of oral toxicity.
Based on available data, the criteria for classification are not fulfilled.

Skin corrosion/ skin irritation Cat.2
Cement in contact with wet skin can cause swelling, cracks and fissures on skin. Longer contact

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combined with abrasion can cause severe burns.

Severe eye injuries/irritation Cat.1

Portland cement clinker causes opaque picture due to effects on cornea; calculated irritation index was 128.

Common cement contains different quantities of Portland cement clinker, electro filter ash, blast furnace, gypsum, natural porcelains, slate, microsilica and limestone.

Direct contact of cement with cornea can cause injuries of cornea due to mechanical load, immediate or delayed irritation or inflammation. Direct contact with larger quantities of cement dust or gush of wet cement can cause effects ranging from moderate eye irritation (e.g. inflammation of eye conjunctiva or blepharitis) to chemical burns and blindness.

Skin sensitisation Cat.1B

In some individuals, skin eczema can appear after the exposure to wet cement dust, due to its high pH value which causes contact dermatitis after longer contact, either due to immune reaction to soluble chromium (VI) which causes allergic contact dermatitis.

The reaction can appear in different forms, from mild rash to severe dermatitis and is a combination of both aforementioned mechanisms.

If cement contains a reducing agent for soluble Cr(VI), the effectiveness of reduction of chromium is not decreased during the period while a reducing agent's expiration date is not exceeded.

Skin sensitisation effect should not be expected during that period.

· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

Cement is not dangerous for the environment. Ecotoxicological research with Portland cement on water flea -Daphnia magna and Selenastrum coli showed only a minor toxicological effect. For this reason, the values of LC50 and EC50 could not be determined. No toxic effects on sediments were identified. However, the discharge of a large quantity of cement into water courses can cause an increase of pH, which can in some cases be toxic for water organisms.

· **12.2 Persistence and degradability** No further relevant information available.

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

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

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

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· **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

· **12.7 Other adverse effects**

· **Other information:**

Control of environment exposure:

To prevent the emission of compound dust into the environment, see the measures of the technical-technological control (sub-chapter 8.2.1). Use all adequate measures to prevent the loss of compound into water (sewage system, groundwater and surface water). At facilities where handling with cement takes place or where cement is transported, loaded, unloaded and stored, one must take care of adequate technical-technological measures for limiting the emissions of dust into the working environment. By using preventive measures, it must in particular be ensured that the concentration of respirable cement dust is below allowed threshold (limit) values determined for Portland cement.

Control of environment exposure for emissions of cement particles into the air must be in line with the available technology and valid regulations regarding the emissions of dust particles in general. Control of environment exposure is also important for the aquatic environment, since cement emissions in different life phases (manufacturing and use) refer in particular to soil and waste water. The effect on aquatic environment and the assessment of exposure include the effect of potential pH values changes due to release of hydroxide to organisms/ecosystems. The toxicity of other dissolved non-organic ions is negligible as compared to potential pH value effect. All other effects which could occur during manufacturing and use should be only of local nature. The pH of waste and surface waters should not exceed the value of Ph=9, as otherwise it could affect municipal and industrial effluent treatment plants. In order to prepare the assessment of exposure, it is recommended to use a phased approach:

Phase 1: Obtain data on the pH value of waste waters and on the impact of cement on their pH value. If the pH value exceeds 9 and it can be attributable to a large extent to the content of cement, further research is necessary in order to prove safe use.

Phase 2: Obtain data on the pH value of accepting water, collected after the flowing out point . The pH of accepting water should not exceed the value pH=9.

Phase 3: Measure the pH value in accepting water, collected after the flowing out point. If the pH value is lower than 9, the substance is proved to be safe for use. However, if the pH value is higher than 9, adequate measures must be prepared in order to manage risks: One must take care of neutralization of waste waters and in such way ensure safe use of cement, both in the production as well as in the use phase.

Regarding the exposure of land environment, no measures for the emission control are necessary.

· **Additional ecological information:**

· **General notes:**

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

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Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

The removal of cement must be carried out in line with the legislative provisions:

1.- Product – cement with expired shelf life:

If it contains more than 0.0002 % of soluble Cr (VI), it is not used / sold, except in controlled closed or entirely automated processes. It should be recycled or removed in line with the aforementioned regulations or reducing agent is added to it again.

2.- Product – unused remains or bulk:

Collect unused remains or bulk/scattered material as it is. Label the containers. If possible, use it again (shelf life and exposure to dust are important). In case of removal, harden it with water and remove it in line with the "Product – after addition of water, hardened"

3.- Product – mud

Let it harden, prevent entry into the sewage and drainage systems or into water bodies (e.g. water courses) and remove as waste concrete.

4.- Product – after addition of water, hardened

Prevent entry into the sewage system. Remove hardened material as waste concrete. The waste is not hazardous, but rather an inert one. Waste classification number: 10 13 14 (Wastes from manufacture of cement products – Waste concrete and concrete sludge) or 1701 01 (Construction and demolition waste– Concrete).

Packaging waste

Packaging waste must be completely emptied and disposed of in accordance with the Decree on packaging and packaging waste handling, classification number: 15 01 05 - Composite packaging.

· Recommendation

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

Hand over to hazardous waste disposers.

· European waste catalogue

08 02 01	waste coating powders
15 01 05	composite packaging

· **Recommendation:** Dispose of packaging according to regulations on the disposal of packagings.

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

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SECTION 14: Transport information

· 14.1 UN number or ID 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:	Not applicable.
· 14.6 Special precautions for user	Not applicable.
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· UN "Model Regulation":	Void

SECTION 15: Regulatory information

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

Following regulation was considered in the preparation of document:

Legislation on the occupational health and safety, the chemical legislation and regulations on biocidal products, regulations on classification, packaging and labeling of chemical and biocidal products and requirements on safety data sheets for chemicals and biocidal products composition, as well as regulations on the management of packaging and packaging waste and waste.

· **Labelling according to Regulation (EC) No 1272/2008**

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

· **Hazard pictograms**



GHS05 GHS07

· **Signal word** Danger

· **Hazard-determining components of labelling:**

Cement, portland, chemicals

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· **Hazard statements**

- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H317 May cause an allergic skin reaction.
- 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.
- P103 Read carefully and follow all instructions.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash thoroughly after handling.
- 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.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Directive 2004/42/EC**

· **Directive 2012/18/EU**

- **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

· **National regulations:**

In line with point 47 of Appendix XVII to the Regulation ES 1907/2006, a prohibition of use and placing on the market applies for cement and cement preparations:

1. Cement and cement-containing mixtures shall not be used or placed on the market, if they contain, when hydrated, more than 0.0002 % soluble chromium (VI) of the total dry weight of the

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cement.

2. If reducing agents are used, then without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of cement or cement-containing mixtures is visibly, legibly and indelibly marked with information on the packing date, as well as on the storage conditions and the storage period appropriate to maintaining the activity of the reducing agent and to keeping the content of soluble chromium (VI) below the limit indicated in the previous paragraph.

3. By way of derogation, paragraphs 1 and 2 shall not apply to the placing on the market for, and use in, controlled closed and totally automated processes in which cement and cement-containing mixtures are handled solely by machines and in which there is no possibility of contact with the skin.

Other regulations, limitations and prohibitive regulations

Processes where cement products are used:

The table provides an overview of all adequate identified uses of cement and cement-based hydraulic binders. All uses have been grouped in these identified uses due to specific conditions of exposures to human health and environment. For each specific use, a series of measures is prescribed for risk management or local control (see Chapter 8), which should be respected by the user of cement or cement-based hydraulic binders in order to reduce exposure to an acceptable level.

PROC - Identified use – description of use

2.- Use in closed, continued processes with periodic controlled exposure, e.g. Industrial or professional manufacturing of hydraulic binders

3.- Use in closed batch processes e.g. industrial or professional production of concrete

5.- Mixing or homogenization in batch processes for manufacturing compounds and products, e.g. industrial or professional manufacturing of concrete prefabricated items

7.- Industrial splashing e.g. industrial use of wet suspensions of hydraulic binders with splashing

8a.- Transfer of substance or mixture (filling / emptying) from / into vessel / large container on general-purpose devices e.g. use of cement in bags for reparation of mortar

8b.- Transfer of substance or mixture (filling / emptying) from / into vessel / large container on special-purpose devices, e.g. filling up of silos, trucks and cisterns in a cement production plant

9.- Transfer of substance or mixture into small containers, e.g. filling up of cement into bags in a cement production plant - line

10.- Application by roller or painting, e.g. of products intended for improving contact between the substrate and finishing product

11.- Non-industrial splashing e.g. professional use of wet suspensions of hydraulic binders with splashing

13.- Treatment of products with soaking and infusing, e.g. protection of construction products, with a coating for improving product's effectiveness

14.- Manufacturing of compounds or products with tableting, compression, extrusion, peletting e.g. manufacturing of floor linings

19.- Manual mixing with close contact and only with personal protective equipment, e.g. mixing of wet hydraulic binder at construction site

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22.- Potentially closed treatment of minerals / metals at increased temperature in industrial area, e.g. manufacturing of bricks

26.- Use of solid inorganic substances at room temperature e.g. mixing of wet hydraulic binders

In cement-based preparations, the content of chromium - Cr(6+) is reduced in line with the provisions on classification, packaging and labelling of hazardous preparations.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

· **Relevant phrases**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

· **Recommended restriction of use**

Claims contained in this document are based on our actual knowledge at the time of revision of this document. They do not undertake the properties of the product described in terms of the legal provisions for the pledge.

Placing this document as available does not unbind the product customer from its responsibility to comply with all relevant laws and regulations applicable for this product. This is especially valid in the case of product resale or resale of its mixtures or manufactured products from other areas of law and industrial property rights of third parties. If the product described above is changed by crafting or mixing with other materials, it is not possible to transfer claims from this document onto a newly made product, unless otherwise specified. In the case of product re-packaging the customer must attach the required relevant safety information as well.

· **Department issuing SDS:**

JUB d.o.o.

Product safety department

· **Contact:**

Laura Učakar

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· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

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PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

· *** Data compared to the previous version altered.**

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