according to Regulation (EC) No 1907/2006 (REACH) as amended

MFC Cobet 100

Creation date 22. November 2017

Revision date Version 4.0

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

1.1. Product identifier MFC Cobet 100

Substance / mixture mixture

Number MFC Cobet 110, 115,120, 130, 140, 150, 160, 170 a 180.

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

mixture's intended use Cement screed material for indoor use in buildings

according to ČSN EN 13813.

referred in Section 1.

1.3. Details of the supplier of the safety data sheet

Manufacturer

Name or trade name MFC - MORFICO s.r.o.

Address Olbrachtova 1758, 666 03 Tišnov

Czech Republic 25507494

Identification number (ID)25507494Phone+420549410141

Competent person responsible for the safety data sheet

Name Jindřich Vrbenský E-mail J.Vrbensky@email.cz

1.4. Emergency telephone number

National Health Service (NHS) 111

National poisoning information centre Scotland, NHS 24: 111

Emergency telephone number abroad

Toxicological Information Center, Na Bojišti 1, Praha, Tel. 224 919 293 or 224 915 402 (24 h), Information only for health risks - acute poisoning of humans and animals.

SECTION 2: Hazards identification

2.1. Substance or mixture classification

Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Dam. 1, H318 STOT SE 3, H335

Full text of all classifications and H-phrases is given in the section 16.

Most serious adverse effects on human health and the environment

Causes skin irritation. May cause an allergic skin reaction. May cause respiratory irritation. Causes serious eye damage.

2.2. Label elements

Hazard pictogram





Signal word

Danger

Hazardous substances

Cement, portland, chemicals Flue dust, portland cement

Hazard statements

H315 Causes skin irritation.

according to Regulation (EC) No 1907/2006 (REACH) as amended

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H317	May cause an allergic skin	reaction.		

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

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves.

P405 Store locked up.

P501 Dispose of contents/container to by handing over to the person authorized to dispose of

waste or by returning to the supplier.

2.3. Other hazards

Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. It also contains polymeric binder (1-5%), vinyl acetate copolymer (copolymer of vinyl acetate and ethylene with mineral additives and protective colloid) which is not classified by the manufacturer as dangerous. Repeated or prolonged skin contact may cause mild irritation. Dust causes respiratory tract irritation. Particles may scratch the eyes and cause mechanical irritation. Dust may be explosive in a critical mixture with air and in the presence of a source of ignition.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

A mixture of the substances listed below. Quartz sand contains> 98% quartz, according to BL from the supplier is not classified as hazardous. Contains less than 1% quartz (breathable), which is classified as STOT RE1. For the cement component, the supplier states that it is a mixture of cement Portland clinker (CAS 65997-15-1, EINECS 266-043-4, registration number not allocated) in the amount of 5-100% and dust from clinker production (CAS 68475-76-3, EINECS 270-659-9, registration number 01-2119486767-17) in an amount of 0-5%. Cements do not meet the criteria for PTB or vPvB in accordance with REACH Annex XIII (Regulation (EC) No 1907/2006). The slag component is not classified as hazardous, does not meet the criteria for PTB or vPvB in accordance with REACH Annex XIII (Regulation (EC) No 1907/2006). Additionally, the mixture contains a vinyl acetate / ethylene copolymer component with mineral additives and a protective colloid (1-5% by weight) which is not classified by the manufacturer as dangerous but contains <1% of 2,4,7,9-tetramethyl-5-decyn- 7-diol, which may cause an allergic reaction.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note.
CAS: 14808-60-7 EC: 238-878-4	quartz (SiO2)	45-55		
CAS: 65997-15-1 EC: 266-043-4	Cement, portland, chemicals	25-45	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Dam. 1, H318 STOT SE 3, H335	
CAS: 65996-69-2 EC: 266-002-0 Registration number: 01-2119487456-25	Slags, ferrous metal, blast furnace	20-40		
	Copolymer of vinyl acetate and ethylene	1-5		
CAS: 68475-76-3 EC: 270-659-9 Registration number: 01-2119486767-17- 0030	Flue dust, portland cement	<2,5	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Dam. 1, H318 STOT SE 3, H335	

Full text of all classifications and H-phrases is given in the section 16.

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SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

Inhalation

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

Skin contact

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists.

Eve contact

Do not rub your eyes – it could lead to mechanical damage of the cornea. Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

Ingestion

DO NOT INDUCE VOMITING! Rinse out the mouth with water and provide 2-5 dL of water. Provide medical treatment if the person has any health problems.

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

Inhalation

Possible airway irritation with dust, cough.

Skin contact

Irritation, redness, itching. Mechanical dust irritation. Dust may cause allergic reactions. After mixing with water it can irritate the skin.

Eye contact

Dust irritation, redness, tearing, pain. After mixing with water, it may severely irritate eyes, risk of serious eye damage.

Ingestion

Irritation, nausea, diarrhea.

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

If swallowed, consult a physician and seek medical advice.

More information

They are not available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

According to the surroundings of the fire.

Unsuitable extinguishing media

None.

5.2. Special hazards arising from the substance or mixture

The product is non-flammable. Contains 1-5% polymer - fine-grained flammable powder that poses a potential fire risk and contains organic components that may be released during fire. Fire produces heavy, black smoke, with potential development of carbon monoxide and dioxide and other toxic gases. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Avoid dust formation. Closed containers with the product near the fire should be cooled with water. Do not allow runoff of contaminated fire extinguishing material to enter drains or surface and ground water. Use self-contained breathing apparatus, full body protection and other protection according to valid regulations.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid dust, remove sources of ignition and fire. Avoid contact with the skin and eyes. Use personal protective equipment for work. Follow the instructions contained in chapters 7 and 8. Unauthorized persons must leave the space.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Avoid dust formation. Spill dry material in a dry state and use if it is not dirty or degraded. Spill the spilled compound mechanically, drain or cover with suitable (non-combustible) absorbent material (sand, diatomaceous earth, soil and other suitable absorbent materials), collect in well-sealed and labeled containers. Dispose of the collected material according to the instructions in the section 13. Upon an escape of large quantities of the product, inform the Fire Department and the Environmental Department of the Municipal Authority with the extended scope of competencies. After removal of the product, wash the contaminated site with plenty of water.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ensure ventilation of the workplace. Avoid dust formation at flammable or explosive concentrations and concentrations exceeding the maximum allowable concentrations (NPK-P) for working atmosphere. Minimize airborne dust generation and prevent wind blowing during loading and unloading. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. No smoking. An electrostatic charge may occur during use. All equipment must be properly grounded. Use of antistatic clothes and footwear is recommended. Use non-sparking tools. Do not inhale dust. Prevent contact with skin and eyes. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Do not drink, eat or smoke at work. At the end of the shift, take a shower and change your clothing.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cool, dry and well ventilated areas, away from smelly materials. Avoid dust, protect yourself from sources of ignition and fire. Observe the instructions on the label. Keep out of reach of children.

Content 25 kg

Type of packaging paper bags

The specific requirements or rules relating to the substance/mixture

Handle the product according to the product data sheet.

7.3. Specific end use(s)

See the Section 11.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

United Kingdom of Great Britain and Northern Ireland

Substance name (component)	Туре	Time of exposure	Value	Note	Source
Cement, portland, chemicals	WEL	8 hours	10 mg/m ³	Inhalable aerosol	Costis
(CAS: 65997-15-1)	WEL	Short-term	4 ppm	Respirable aerosol	Gestis

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Other information of limit values

PNEC3 for the slag component:

PNEC3 / Assessment factor

Water (source): 5 g / L Factor 10

Water (sea): 0.5 g / L factor 100 Water (Broken Flow): 5 g / L Factor 10

Soil: 1000 mg / kg soil [dw] Factor 10

Waste water treatment plant: 10 g / L factor 1

Exposure limit values for polymer binder from producer: Dust: 10 mg / m3, Vinyl acetate: 50 mg / m3 - upper limit, 30 mg / m3 TWA. DNEL inhalation (8 hours): 3 mg / m3 for cement component, refers to respirable dust. Other values are not available

8.2. Exposure controls

Nevdechujte prach, zabraňte kontaktu s kůží a očima. Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Jestliže tak není možno dodržet NPK-P, musí být používána vhodná ochrana dýchacího ústrojí. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Ochranné brýle těsné proti prachu (výběr podle ČSN EN 166). Nenoste kontaktní čočky. Na pracovišti zajistěte možnost výplachu očí.

Skin protection

Ochrana rukou: Ochranné rukavice odolné výrobku, např. Nitril (podle ČSN EN 374). When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Výrobek je směs, je třeba udělat zkoušku nepropustnosti rukavic. Při delším nebo opakovaném styku používejte vhodné ochranné krémy na pokožku přicházející do přímého styku se směsí. Observe other recommendations of the manufacturer. Jiná ochrana: Ochranný oděv z přírodních vláken s dlouhými rukávy a nohavicemi, ochranná obuv. Contaminated skin should be washed thoroughly.

Respiratory protection

Zajistěte přiměřené větrání podle objemů, se kterými se pracuje. Použijte masku s filtrem proti prachu, event. izolační dýchací přístroj při překročení NPK-P toxických látek nebo ve špatně větratelném prostředí (podle ČSN EN 14387:2004, 83 2220).

data not available

Thermal hazard

Za normálních podmínek používání a skladování nehrozí.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

More information

Nejsou k dispozici.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance powder
Physical state solid at 20°C

color grey
Odour without fragrance

Odour threshold data not available pH 11 (500g/l% solution)
Melting point/freezing point data not available
Initial boiling point and boiling range data not available
Flash point data not available
Evaporation rate data not available

Upper/lower flammability or explosive limits

flammability limits data not available explosive limits data not available Vapour pressure data not available Vapour density data not available Relative density data not available

Solubility(ies)

Flammability (solid, gas)

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solubility in water insoluble solubility in fats data not available Partition coefficient: n-octanol/water data not available Auto-ignition temperature data not available Decomposition temperature data not available Viscosity data not available Explosive properties data not available Oxidising properties data not available

9.2. Other information

Density 1.5 g/cm³ at 20 °C ignition temperature data not available

There are no other data available for the mixture. Characteristics of the quartz sand component: solid state grained, white, odorless, pH (400 g v1 l water) 5-8, melting point >1610 °C, density 2 - 3 g / cm3, water solubility slight, soluble in hydrofluoric acid. Characteristics of the component Cements: gray or white powder, particles 5-30 μ m, odorless, pH (water: solid ratio 1: 2) 11-13.5, melting point> 1250 °C, apparent density 0.9-1, 5 g / cm3. Characteristics of the component Slag: gray-yellow granulate 0-5 mm or powder, pH 9,0-12,5 10 % solution at 20 °C, non-flammable, density 2,4-3,0 g / cm3, Log Kow (Pow) 9 at 20 °C. Characteristics for polymer binder from manufacturer: white to beige powder, odorless, pH 8.0 (100 g / l at 20 °C) in water partially soluble, dispersible, bulk density 460-560 kg / m³, thermal decomposition >250 °C, dust explosion class 1.

SECTION 10: Stability and reactivity

10.1. Reactivity

Under normal use, the mixture is stable, no dangerous reactivity known. Avoid dust, may be explosive.

10.2. Chemical stability

Under normal use and storage, the mixture is chemically stable.

10.3. Possibility of hazardous reactions

Uncontrolled contact with water. Contact with acids.

10.4. Conditions to avoid

Water, humidity. Wet storage conditions can cause clumping and loss of product quality. Prevent dust from handling, may be explosive.

10.5. Incompatible materials

Uncontrolled contact with water. Acids, ammonium salts, aluminum or other non-ferrous metals.

10.6. Hazardous decomposition products

Not developed under normal uses. At high temperatures, decomposition, fire, hazardous toxic gases, smoke, soot are formed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

There are no toxicological data available for the mixture for ingredients only. In the form of dust even after mixing with water it irritates the eyes, the respiratory organs and the skin. For the polymer binder component, the manufacturer has low oral toxicity, does not irritate the skin or eyes, sensitization or mutagenicity is not expected. Inhalation of cement dust can aggravate existing respiratory diseases or health conditions such as emphysema (asthma) or asthma or the current condition of the skin or eyes. Sands: Depending on the type of processing and use (eg grinding, drying), airborne breathable crystalline quartz (quartzite) may be formed. Long-term or extensive inhalation of respirable crystalline silica dust can cause pulmonary fibrosis, commonly referred to as silicosis. The main symptoms of silicosis are coughing and difficulty in breathing. Exposure of dust workers to respirable crystalline silica must be monitored and controlled. This product must be handled with care to avoid dust generation.

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Acute toxicity

Based on available data the classification criteria are not met. Cement component: limit test, rabbit, dermal contact for 24 hours, 2000 mg / kg body weight - non-lethal. No acute inhalation effects were observed. There is no evidence of oral toxicity from dust-bed studies from portland clinker production. Slag component - no acute oral, dermal toxicity - determined on the basis of other types of slag or inhalation.

Cement, portland, chemicals

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Determining the value of
Dermal			2000 mg/kg bw	24 hour	Rabbit		

Copolymer of vinyl acetate and ethylene

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Determining the value of
Oral	LD50	OECD 423	>2000 mg/kg		Rat		Analogous approach

Slags, ferrous metal, blast furnace

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Determining the value of
Oral	LD50	OECD 401	2000 mg/kg bw		Rat (Vistar rat)		
Inhalation	LC50	OECD 403	5235 mg/m ³		Rat (Vistar rat)		

Skin corrosion/irritation

Causes skin irritation. When contacting cement with wet skin, it can cause swelling, puffiness or cracking of the skin (human experience). The slag component is not irritating according to the OECD 404, New Zealand white rabbit test.

Cement, portland, chemicals

Route of exposure	Result	Method	Time of exposure	Species	Determining the value of
	Irritating, Drying and cracking of the skin, Caustic			Human	Experimentally

Copolymer of vinyl acetate and ethylene

Route of exposure	Result	Method	Time of exposure	Species	Determining the value of
Oral	Not irritating	OECD 404		Rabbit	Analogous approach

Slags, ferrous metal, blast furnace

Route of exposure	Result	Method	Time of exposure	Species	Determining the value of
Oral	Not irritating	OECD 404		Rabbit (White rabbit)	

Serious eye damage/irritation

Causes serious eye damage. Direct eye contact with cement can cause corneal damage by mechanical stress, immediate or delayed irritation, or inflammation. Direct contact with more dry cement dust or wet / wet spraying can cause light irritation (eg conjunctivitis or eyelid inflammation) after chemical burns / burning and blindness. The slag component is not irritating to the eyes according to the OECD 405, New Zealand white rabbit test.

Cement, portland, chemicals

Route of exposure	Result	Method	Time of exposure	Species	Determining the value of
	Irritating				

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Copolymer of vinyl acetate and ethylene

Route of exposure	Result	Method	Time of exposure	Species	Determining the value of
Eye	Not irritating	OECD 405			Analogous approach

Slags, ferrous metal, blast furnace

Route of exposure	Result	Method	Time of exposure	Species	Determining the value of
Eye	Not irritating	OECD 405		Rabbit (New Zealand White rabbit)	

Sensitization

Slags, ferrous metal, blast furnace

Route of exposure	Result	Method	Time of exposure	Species	Sex
Oral	Not sensitizing	OECD 406		Rabbit (New Zealand White rabbit)	

Respiratory or skin sensitisation

May cause an allergic skin reaction. Some individuals may suffer from exposure to wet cement dust by eczema caused by either a high pH which causes contact dermatitis to be irritated after prolonged contact, or by an immunological response to soluble Cr (VI) that causes contact allergic dermatitis. The reaction may occur in various forms ranging from mild rash to severe dermatitis and is a combination of both of the above mechanisms. If the cement contains a reducing agent to reduce the soluble Cr (VI) content and if the limit for soluble Cr (VI) is not exceeded at the time of storage, the sensitizing effect is not expected. The slag component is not sensitizing according to OECD Test 406, New Zealand, white rabbit.

Cement, portland, chemicals

Route of exposure	Result	Method	Time of exposure	Species	Sex	Determining the value of	Source
Dermal	Sensitizing			Human		Experimentally	

Copolymer of vinyl acetate and ethylene

Route of exposure	Result	Method	Time of exposure	Species	Sex	Determining the value of	Source
Dermal	No effect	OECD 429		Mouse (lymphoma)		Analogous approach	LLNA (test lokální lymfatick é uzliny)

Mutagenicity

Slags, ferrous metal, blast furnace

Result	Method	Time of exposure	Specific target organ	Species	Sex
No effect	EU B.13/14			Salmonella typhimurium	
No effect	EU B.17			Chinese hamster lung fibroblast (V79)	

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Germ cell mutagenicity

Based on available data the classification criteria are not met. Slag component: No mutagenic effects.

Copolymer of vinyl acetate and ethylene

Result	Method	Time of exposure	Specific target organ	Species	Sex	Determinin g the value of	Source
Negative	OECD 471			Bacteria		Analogous approach	test mutace (in vitro)

Carcinogenicity

Based on available data the classification criteria are not met. Epidemiological literature does not support the designation of Portland cement as a possible human carcinogen. Portland cement is not classified as a human carcinogen (according to ACGIH A4: Reagents that cause concern that it could be carcinogenic to humans but which can not be definitively assessed due to a lack of data. In vitro or animal studies do not provide evidence of carcinogenicity sufficient for the classification of the reagent by some of the other indications). Portland cement contains up to 5% of dust.

Reproductive toxicity

Based on available data the classification criteria are not met. Slag component: NOAEC study is ongoing: $200 \text{ mg} / \text{m}^3$ (subacute, rat).

Toxicity for specific target organ - single exposure

May cause respiratory irritation. Dust of portland cement can irritate the throat and the airways. Exposure to a person above the exposure limit in the workplace may result in coughing, sneezing and shortness of breath / breathlessness. Overall, the structure of evidence clearly indicates that exposure in the working environment by cement dust causes insufficient respiratory function. However, the available evidence is currently insufficient to establish certain certainty in relation to the size of the dose and these effects.

Cement, portland, chemicals

Route of exposure	Parameter	Value	Result	Species	Sex
Inhalation			Irritating		

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met. No chronic effects or effects at lower concentrations were observed for cements.

Slags, ferrous metal, blast furnace

orago, rerrodo metal, praot ramaco								
Route of exposure	Parameter	Value	Result	Species	Sex	Source		
Oral	NOAEC	200 mg/m ³		Rat		studie probíhá		

Aspiration hazard

Based on available data the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

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Acute toxicity

There is no data available for the mixture. No hazardous effects are expected in the aquatic environment. The polymer component increases the biological oxygen demand in wastewater, and low toxicity to aquatic organisms is expected. The ecotoxicological tests of Portland cement on Daphnia magna and Selenastrum coli showed only low toxic effects. Therefore, the LC50 and EC50 values could not be determined. There is no indication of sediment toxicity. However, the presence of large amounts of cement in water can cause an increase in pH, and therefore may be toxic in some circumstances for life in water (aquatic environment, aquatic organisms).

Copolymer of vinyl acetate and ethylene

Parameter	Method	Value	Time of exposure	Species		Determining the value of		
LC50	OECD 203	>100 mg/l	96 hour	Fishes (Kapr (Cyprinus carpio))		Analogous approach		
EC10		>1000 mg/l	0,5 hour		Activated sludge	Analogous approach		

Slags, ferrous metal, blast furnace

Parameter	Method	Value	Time of exposure	Species	Environme nt	Determining the value of
LC 0	OECD 203	>100 g/l	96 hour	Fishes (Leuciscus idus)		
LC50	OECD 203	>100 g/l	96 hour	Fishes (Leuciscus idus)		
LC 0	OECD 202	>100 g/l	48 hour	Daphnia (Daphnia magna)		
LC50	OECD 202	>100 g/l	48 hour	Daphnia (Daphnia magna)		
IC 10	OECD 201	>100 g/l	72 hour	Algae (Selenastrum substicatus)		
IC50	OECD 201	>100 g/l	72 hour	Algae (Selenastrum substicatus)		
EC10	OECD 209	10 g/l	3 hour	Microorganisms	Activated sludge	
EC50	OECD 209	10 g/l	3 hour	Microorganisms	Activated sludge	

Chronic toxicity

Slags, ferrous metal, blast furnace

Parameter	Method	Value	Time of exposure	Species	Environmen t
EC10	OECD 211	5 g/l		Daphnia (Daphnia magna)	

12.2. Persistence and degradability

There is no data available for the mixture. The polymer component is not readily biodegradable. Cements are an inorganic material. Hardened cement does not pose a risk of toxicity. For slag is irrelevant.

12.3. Bioaccumulative potential

There is no data available for the mixture. The polymer component has a low bioaccumulation potential. Slag - no evidence of bioaccumulation potential.

12.4. Mobility in soil

There is no data available for the mixture. The polymer component is miscible with water. The slag component is poorly soluble, exhibiting low mobility in most soils.

12.5. Results of PBT and vPvB assessment

according to Regulation (EC) No 1907/2006 (REACH) as amended

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Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Other adverse effects

Ecotoxic effects can only occur if the product is inadvertently spilled in conjunction with water due to increased pH. Slag: slowing germination. This must be taken into account especially in areas with increased protection of fauna and flora. Risk of pH change in the environment (pH> 7). When used in slow-flowing or standing water, it is advisable to oxidize water and adjust the speed of the work so that the pH of the water does not have any adverse effects on fauna and flora.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Legislation of waste

Council Directive 75/442/EEC on waste, as amended. Decree No. 383/2001 Coll., on details regarding waste handling as amended. Decree No. 93/2016 Coll., (waste catalogue) as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Code of type of waste

17 01 01 concrete

10 13 14 waste concrete and concrete sludge

Packaging waste type code

15 01 05 composite packaging

15 01 01 paper and cardboard packaging

SECTION 14: Transport information

14.1. UN number

Not subject to ADR.

14.2. UN proper shipping name

not available

14.3. Transport hazard class(es)

not available

14.4. Packing group

not available

14.5. Environmental hazards

not available

14.6. Special precautions for user

not available

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not available

according to Regulation (EC) No 1907/2006 (REACH) as amended

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SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 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, as amended. The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended (the Chemical Act). Decree No. 432/2003 Coll., laying down conditions for assigning categories to individual jobs, limit values of indices from biological exposure tests, conditions for the sampling of biological materials for biological exposure and the particulars of the reports on work with asbestos and biological agents as amended.

15.2. Chemical safety assessment

Not processed.

More information

They are not available.

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

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

Guidelines for safe handling used in the safety data sheet

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves. P405 Store locked up.

P501 Dispose of contents/container to by handing over to the person authorized to dispose of

waste or by returning to the supplier.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

ADR European agreement concerning the international carriage of dangerous goods by road

BCF Bioconcentration Factor
CAS Chemical Abstracts Service

CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and

mixtures

DNEL Derived no-effect level

EC Identification code for each substance listed in EINECS

EC50 Concentration of a substance when it is affected 50% of the population EINECS European Inventory of Existing Commercial Chemical Substances

EmS Emergency plan EU European Union

IATA International Air Transport Association

IBC International Code For The Construction And Equipment of Ships Carrying Dangerous

Chemicals

IC50 Concentration causing 50% blockadeICAO International Civil Aviation OrganizationIMDG International Maritime Dangerous Goods

INCI International Nomenclature of Cosmetic Ingredients
ISO International Organization for Standardization
IUPAC International Union of Pure and Applied Chemistry

according to Regulation (EC) No 1907/2006 (REACH) as amended

MFC Cobet 100

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LC₅₀ Lethal concentration of a substance in which it can be expected death of 50% of the

population

Lethal dose of a substance in which it can be expected death of 50% of the population LD₅₀

LOAEC Lowest observed adverse effect concentration

LOAEL Lowest observed adverse effect level log Kow Octanol-water partition coefficient

MARPOL International Convention for the Prevention of Pollution From Ships

NOAEC No observed adverse effect concentration

NOAEL No observed adverse effect level NOEC No observed effect concentration

NOEL No observed effect level OEL Occupational Exposure Limits

PBT Persistent, Bioaccumulative and Toxic **PNFC** Predicted no-effect concentration

Parts per million ppm

Registration, Evaluation, Authorisation and Restriction of Chemicals **REACH**

RID Agreement on the transport of dangerous goods by rail

UN Four-figure identification number of the substance or article taken from the UN Model

Regulations

UVCB Substances of unknown or variable composition, complex reaction products or biological

materials

VOC Volatile organic compounds

vPvB Very Persistent and very Bioaccumulative

Eye Dam. Serious eye damage Skin Irrit. Skin irritation Skin Sens. Skin sensitization

STOT SE Specific target organ toxicity - single exposure

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

Only use the supplier's recommendations.

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended. First aid principles after the exposure to the chemicals (Zásady pro poskytování první pomoci při expozici chemickým látkám, doc. MUDr. Daniela Pelclová, CSc., MUDr. Alexandr Fuchs, CSc., MUDr. Miroslava Hornychová, CSc., MUDr. Zdeňka Trávníčková, CSc., Jiřina Fridrichovská, prom. chem.). Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

Version 4.0 replaces the BL version of 16.03.2015. Changes were made in all sections according to the new Safety Data Sheets of the components.

More information

They are not available.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.