

Safety Data Sheet

Frisk beton

Issued: 11/21/2022
Version: 1.0.0

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

1.1. Product identifier

Trade name: Frisk beton

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

Recommended uses: Construction product.

1.3. Details of the supplier of the safety data sheet

Supplier

Company: Medlemmer af Fabriksbetonforeningen
Address: H. C. Andersens Blvd. 18
Zip code: 1787
City: København
Country: DENMARK
Phone: 33 77 33 77
Homepage: www.fabriksbetonforeningen.dk

1.4. Emergency Telephone Number

82 12 12 12 (The poison line).

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP-classification: Skin Corr. 1;H314 Eye Dam. 1;H318 STOT SE 3;H335

Most serious harmful effects: Causes severe skin burns and eye damage. May cause respiratory irritation.

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2.2. Label elements

Pictograms



Signal word: Danger

Contains

Substance: Portland Cement; Flue dust, portland cement;

Hazard Statements

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+361+353+310 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Immediately call a POISON CENTER/doctor.

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.

Supplemental information

Contains a reducing agent which reduces soluble chromium VI. The reducing agent is active when stored in a dry place for 12 months after the stated packing date. When stored in moist conditions, e.g. on construction sites, the chromate neutralisation will wear off. Packing that has been opened should be closed tightly after use, and the product should be used as soon as possible.

2.3. Other hazards

PBT/vPvB: No assessment required, as the product contains inorganic matter only. Endocrine disrupting properties: None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	CAS No./ EC No./ REACH Reg. No.	Concentration	Notes	CLP-classification
Portland Cement	65997-15-1 266-043-4	10 - 30 %		Skin Irrit. 2;H315 Eye Dam. 1;H318 STOT SE 3;H335
Flue dust, portland cement	68475-76-3 270-659-9 01-2119486767-17	≤ 6 %		Skin Irrit. 2;H315 Eye Dam. 1;H318 STOT SE 3;H335

Please see section 16 for the full text of H- / EUH-phrases.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Seek fresh air. Seek medical advice in case of persistent discomfort.

Ingestion: Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Do not induce vomiting. Immediately call a POISON CENTER or doctor/physician.

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Skin contact: Immediately remove contaminated clothing. Wash the skin thoroughly with water and continue washing for a long time. Immediately call a POISON CENTER or doctor/physician.

Eye contact: Open eye wide, remove any contact lenses and flush immediately with water (preferably using eye wash equipment). Seek medical advice immediately. Continue flushing until medical attention is obtained.

General: When obtaining medical advice, show the safety data sheet or label.

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

Ingestion may cause caustic burning in mouth, esophagus and stomach. Pains in mouth, throat and stomach. Difficulty swallowing, feeling unwell and vomiting of blood. Brown spots and burns may appear in and around the mouth. Eye contact may result in deep caustic burns, pain, tearing and cramping of the eyelids. Risk of serious eye injury and loss of sight. Has a caustic burning effect and causes burning pain, reddening, blistering and burning sores if it comes in contact with skin.

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

Treat symptoms. Ensure that medical personnel are aware of the material involved, and take precautions to protect themselves.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: The product is not directly flammable. Choose extinguishing agents based on the surrounding fire.

Unsuitable extinguishing media: Do not use water stream, as it may spread the fire.

5.2. Special hazards arising from the substance or mixture

The product is not directly flammable. Avoid inhalation of vapour and fumes - seek fresh air.

5.3. Advice for firefighters

Wear Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit. Extinguishing water which has been in contact with the product may be corrosive.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Stay upwind/keep distance from source. Stop leak if this can be done without risk. Keep unnecessary personnel away. Wear gloves. Wear safety goggles/face protection.

For emergency responders: In addition to the above: Chemical protective suit equivalent to EN 943-2 is recommended.

6.2. Environmental precautions

Prevent spillage from entering drains and/or surface water.

6.3. Methods and material for containment and cleaning up

Contain and absorb spill with sand or other absorbent material and transfer to suitable waste containers. Caution! Causes burns. Rinse with water.

6.4. Reference to other sections

See section 8 for type of protective equipment. See section 13 for instructions on disposal.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Running water and eye wash equipment must be available. A safety shower should be available. Wash hands before breaks, before using restroom facilities, and at the end of work.

Work with the product is subject to Arbejdstilsynet's statutory order about work with code numbered products used during construction (bekendtgørelse om arbejde med kodenummererede produkter ved anvendelse til bygningsarbejde).

7.2. Conditions for safe storage, including any incompatibilities

Store safely, out of reach of children and away from food, animal feeding stuffs, medicines, etc. Keep in tightly closed original packaging. Do not store with the following: Acids.

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit

Substance name	Time period	ppm	mg/m ³	fiber/cm ³	Remarks	Comments
Inorganic dust	15m				OEL value for: Inorganic dust	§3, stk. 2
Inorganic dust	15m				Respirable. OEL value for: Inorganic dust	§3, stk. 2
Inorganic dust	8h		5		Respirable. OEL value for: Inorganic dust	
Inorganic dust	8h		10		OEL value for: Inorganic dust	

§3, stk. 2 = The short-term limit value is twice the 8h limit value.

Measuring methods:

Compliance with occupational exposure limits may be checked by occupational hygiene measurements.

Legal basis:

Bekendtgørelse om grænseværdier for stoffer og materialer nr. 1054/2022. At-vejledning C.0.1 om grænseværdier for stoffer og materialer, August 2007 (november 2021).

PNEC

Flue dust, portland cement, cas-no 68475-76-3				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC aqua (freshwater)	282 µg/l			
PNEC aqua (intermittent releases (fresh water))	282 µg/l			
PNEC aqua (marine water)	28 µg/l			
PNEC soil	5 mg/kg dw			

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DNEL - workers

Flue dust, portland cement, cas-no 68475-76-3					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (acute/short-term exposure - local effects)	4 mg/m ³				
Inhalation DNEL (long-term exposure - local effects)	0,84 mg/m ³				

DNEL - general population

Flue dust, portland cement, cas-no 68475-76-3					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (acute/short-term exposure - local effects)	4 mg/m ³				
Inhalation DNEL (long-term exposure - local effects)	0,84 mg/m ³				

8.2. Exposure controls

Appropriate engineering controls: Wear the personal protective equipment specified below.

Personal protective equipment, eye/face protection: Wear safety goggles/face protection. Eye protection must conform to EN 166.

Personal protective equipment, hand protection: Wear gloves. Type of material: Nitrile rubber. Breakthrough time has not been determined for the product. Change gloves often. Gloves must conform to EN 374. The suitability and durability of a glove is dependant on usage, e.g. frequency and duration of contact, glove material thickness, functionality and chemical resistance. Always seek advice from the glove supplier.

Personal protective equipment, respiratory protection: Not required.

Environmental exposure controls: Ensure compliance with local regulations for emissions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Parameter	Value/unit
State	Paste
Colour	No data
Odour	Odourless
Solubility	Miscible with the following: Water.

Parameter	Value/unit	Remarks
Odour threshold	No data	
Melting point	No data	
Freezing point	No data	
Initial boiling point and boiling range	No data	

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Flammability (solid, gas)	No data	
Flammability limits	No data	
Explosion limits	No data	
Flash Point	No data	
Auto-ignition temperature	No data	
Decomposition temperature	No data	
pH (solution for use)	11 - 12.5	
pH (concentrate)	No data	
Kinematic viscosity	No data	
Viscosity	No data	
Partition coefficient n-octanol/water	No data	
Vapour pressure	No data	
Density	No data	
Relative density	2 - 2.5	
Vapour density	No data	
Relative density (sat. air)	No data	
Particle characteristics	No data	

9.2. Other information

Parameter	Value/unit	Remarks
Explosive properties		Non-explosive
Oxidising properties		Non-oxidising.

SECTION 10: Stability and reactivity

10.1. Reactivity

The content of chrome reducing agents will decrease with time. Reacts with the following: Acids.

10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Acids.

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information

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

Acute toxicity - oral

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Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 1848 mg/kg bw			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Acute toxicity - dermal

Flue dust, portland cement, cas-no 68475-76-3

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		≥ 2000 mg/kg bw			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Acute toxicity - inhalation

Flue dust, portland cement, cas-no 68475-76-3

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50 (dust/mist)	4 h	> 6.04 mg/l			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Skin corrosion/irritation:

Has a caustic burning effect and causes burning pain, reddening, blistering and burning sores if it comes in contact with skin.

Serious eye damage/eye irritation:

Eye contact may result in deep caustic burns, pain, tearing and cramping of the eyelids. Risk of serious eye injury and loss of sight.

Respiratory sensitisation or skin sensitisation:

The product does not have to be classified. Test data are not available.

Germ cell mutagenicity:

The product does not have to be classified. Test data are not available.

Carcinogenic properties:

The product does not have to be classified. Test data are not available.

Reproductive toxicity:

The product does not have to be classified. Test data are not available.

Single STOT exposure:

Inhalation of dust is irritating to the upper airways.

Repeated STOT exposure:

The product does not have to be classified. Test data are not available.

Aspiration hazard:

The product does not have to be classified. Test data are not available.

11.2. Information on other hazards

Endocrine disrupting properties:

None known.

Other toxicological effects:

Ingestion may cause caustic burning in mouth, oesophagus and stomach. Pains in mouth, throat and stomach. Difficulty swallowing, feeling unwell and vomiting of blood. Brown spots and burns may appear in and around the mouth.

SECTION 12: Ecological information

12.1. Toxicity

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Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Algae			72hEC50	22.4 mg/l			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

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12.2. Persistence and degradability

The concept of biodegradability is not relevant, as the product contains inorganic matter only.

12.3. Bioaccumulative potential

No bioaccumulation expected.

12.4. Mobility in soil

Hardens to a firm, non-mobile mass.

12.5. Results of PBT and vPvB assessment

No assessment required, as the product contains inorganic matter only.

12.6. Endocrine disrupting properties

None known.

12.7. Other adverse effects

The product affects the pH value of the local aquatic environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Avoid discharge to drain or surface water. If this product as supplied becomes a waste, it meets the criteria of a hazardous waste (Dir. 2008/98/EU). Collect spills and waste in closed, leak-proof containers for disposal at the local hazardous waste site. Hardened product: Hardened product is non-hazardous waste according to waste regulations. Contact the local authorities for instructions on handling. Use the below code for waste registration.

Empty, cleansed packaging should be disposed of for recycling. Uncleansed packaging is to be disposed of via the local waste-removal scheme.

Category of waste:

Waste group X.

EAK code: Depends on line of business and use, for instance 17 01 01 concrete

Absorbent/cloth contaminated with the product: EAK code: 15 02 02* absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by hazardous substances

Hardened product: 17 01 07 mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06

SECTION 14: Transport information

14.1. UN number or ID number: Not applicable.

14.4. Packing group: Not applicable.

14.2. UN proper shipping name: Not applicable.

14.5. Environmental hazards: Not applicable.

14.3. Transport hazard class(es): Not applicable.

14.6. Special precautions for user

None.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

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SECTION 15: Regulatory information

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

Special Provisions: Only for use in the period when the water-soluble chromate level is below 2 mg/kg dry cement.
Juveniles below the age of 18 are not allowed to work with this product nor be exposed to it. However, juveniles older than 15 are excepted from this rule if the product is a necessary part of their education.
The product is comprised by Regulation 1907/2006/EC, Annex XVII (47) concerning restrictions.

Covered by:
Statutory order about young people at work. (Bekendtgørelse om unges arbejde.)
Statutory order about work with code numbered products. (Bekendtgørelse om arbejde med kodenumererede produkter.)

15.2. Chemical Safety Assessment

REACH Reg. No.	Substance name
01-2119486767-17	Flue dust, portland cement

SECTION 16: Other information

Version history and indication of changes

Version	Revision date	Responsible	Changes
1.0.0	11/21/2022	Bureau Veritas HSE / JOJ	

Abbreviations: PBT: Persistent, Bioaccumulative and Toxic
STOT: Specific Target Organ Toxicity
vPvB: Very Persistent and Very Bioaccumulative
DNEL: Derived No Effect Level
PNEC: Predicted No Effect Concentration

Other Information: This safety data sheet has been prepared for and applies to this product only. It is based on our current knowledge and the information that the supplier was able to provide about the product at the time of preparation. The safety data sheet complies with applicable law on preparation of safety data sheets in accordance with 1907/2006/EC (REACH) as subsequently changed.

Training advice: A thorough knowledge of this safety data sheet should be a prerequisite condition. The Danish Working Environment Authorities' rules about work with code numbered products must be known.

Classification method: Extreme pH value (≤ 2 or ≥ 11.5).

List of relevant H-statements

H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.

SDS is prepared by

Company: Bureau Veritas HSE Denmark A/S

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