



## SAFETY DATA SHEET

## Bemix Elementfogbruk

The safety data sheet is in accordance with Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued 22.11.2018

Revision date 06.09.2024

**1.1. Product identifier**

Product name Bemix Elementfogbruk

UFI P9UE-101E-K00M-2F37

Article no. 1100650, 1100655, 1100190, 1100195

GTIN No. 7331933706497, 7331933706664

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

Product group Expander mortars.

Use of the substance / mixture A pumpable expander mortar for jointing and subcasting of prefabricated concrete elements.

Main intended use PC-CON-4 Mortars

Uses advised against The product may not be used in any other way than the intended use as described above.

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

Company name Finja Bemix AB

Office address Finvids väg 6, Upplands Väsby

Postal address Box 421

Postcode 194 04

City Upplands Väsby

Country Sverige

Telephone number +46104559500

Email [info@bemix.se](mailto:info@bemix.se)

Website [www.bemix.se](http://www.bemix.se)

Enterprise No. 556117-3377

## 1.4. Emergency telephone number

Emergency telephone	Telephone number: In case of emergency - Call 112 and request poison information. In less urgent cases, call 010-455 95 00, Monday-Friday 7:00 a.m. 3:30 p.m.
---------------------	--

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]

Skin Irrit. 2; H315

Eye Dam. 1; H318

STOT SE 3; H335

Substance / mixture hazardous properties

The product is classified as irritating to eyes, skin and by inhalation. Risk of serious eye damage. Inhaling cement dust can irritate the mucous membranes in the nose and throat. In contact with moist skin and mucous membranes, the product becomes corrosive. The product is not classified as flammable. The product is not classified as environmentally hazardous.

### 2.2. Label elements

#### Hazard pictograms (CLP)



Composition on the label

Portlandcement\* 30 -40 %, Sand containing quartz (SiO<sub>2</sub>)\*\* 50 -70 %

Signal word

Danger

Hazard statements

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

Precautionary statements

P280 Wear protective gloves / protective clothing / eye protection / face protection. P362+P364 Take off contaminated clothing and wash it before reuse. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. P312 Call a POISON CENTER or doctor / physician if you feel unwell.

### 2.3. Other hazards

PBT / vPvB

The product, assessed based on available data, does not contain PBT substances (very persistent/bio accumulative/toxic) or vPvB substances (very persistent and very bio accumulative) according to Regulation (EC) No. 1907/2006 (REACH) Annex XIII.

Other hazards

No known

## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

Composition type	Mixture			
Substance	Identification	Classification	Contents	Notes
Portlandcement*	CAS No.: 65997-15-1 EC No.: 266-043-4	Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335	30 -40 %	
Sand containing quartz (SiO <sub>2</sub> ) **	CAS No.: 14808-60-7 EC No.: 238-878-4		50 -70 %	
Remarks, substance	* The Portlandcement is reduced Cr (VI) and consequently the H317 is not applicable for this product. **The classification of quartz depends on the amount of irreparable crystalline quartz. The sand used in this product contains < 1% repairable crystalline quartz and is consequently not classified as harmful to health.			

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General	Seek medical attention and show this safety data sheet.
Inhalation	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Wash nose, mouth and throat with water. IF exposed or concerned: Get medical advice/attention.
Skin contact	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention.
Ingestion	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

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

Acute symptoms and effects	Corrosive if product is moist. Can cause severe irritation. The product has a drying effect on the skin. If it comes into contact with the eyes, it can cause severe irritation or caustic damage. Risk of serious eye damage. May be irritating or cause corrosive damage in respiratory tracts.
Delayed symptoms and effects	Has an irritating effect on the mucous membranes of the respiratory tract. Long-term exposure to high concentrations of quartz can cause lung changes (silicosis).

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

Separate first aid equipment	Eyewash must be available.
Other information	Always get medical attention if symptoms remain. Don't give anything through the mouth to an unconscious person. Follow the advice given in section 4.1.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	Use extinguishing agents suitable for the surrounding fire.
Improper extinguishing media	No special recommendations.

### 5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	The product is not classified as flammable or combustible.
Hazardous combustion products	No information available for the product.

### 5.3. Advice for firefighters

Special protective equipment for firefighters	During all firefighting suitable protective equipment should be used. Protective suit covering the whole body and fresh air mask is recommended.
---	--

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures	Avoid contact with respiratory system, skin or eyes. Use appropriate protective equipment see section 8.
------------------	--

### 6.2. Environmental precautions

Environmental precautionary measures	Avoid spreading dust. Avoid spreading to drains and waterways.
--------------------------------------	--

### 6.3. Methods and material for containment and cleaning up

Containment	Dry product is collected in a closed container to minimize the risk of dust spreading.
Clean up	Dry product is preferably vacuumed up with industrial vacuum cleaners. Wet product can be scooped up.
Other information	Collected material can be mixed with water for curing. Cured product is not aggressive or reactive.

### 6.4. Reference to other sections

Other instructions	Relevant information in other sections has to be considered. This applies in particular for information given on personal protective equipment (section 8) and on disposal (section 13).
--------------------	--

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Handling	Transported/handled in original packaging or in another suitable container. Mixing should take place outdoors or in well-ventilated environments.
----------	---

### Protective safety measures

Protective safety measures	The workplace must have access to an eye shower with tempered water. Wash the skin after each shift, before meals, smoking and going to the toilet. No eating
----------------------------	---

or drinking in the workplace.

## 7.2. Conditions for safe storage, including any incompatibilities

Storage

Store dry. Corrosive effect if product is moist. To reduce the risk of sensitization due to chrome the cement contains a low amount of Cr(VI). This effect remains 6 months after the packaging date if the product is stored according to instructions. Use of the product after this recommended time limit there is an increased risk of sensitization.

## Conditions for safe storage

Requirements for storage rooms and vessels

Store in a dry place. Store in a closed container.

## 7.3. Specific end use(s)

Recommendations

For further product information, see technical data sheet.

## SECTION 8: Exposure controls / personal protection

Comments if preventive industrial medical examinations are to be carried out

Medical control - quartz (fibrosis-causing dust) every three years. Medical checks in working life (AFS 2019:3)

### 8.1. Control parameters

Substance	Identification	Exposure limits	TWA Year
Dust, inorganic		Country of origin: Sweden Limit value type: NGV Limit value (8 h) : 5 mg/m <sup>3</sup> Source: AFS 2018:1 Particle fraction: Inhalable	
Quartz	CAS No.: 14808-60-7	Country of origin: Sweden Limit value type: NGV Limit value (8 h) : 2,5 mg/m <sup>3</sup> Source: AFS 2018:1 Particle fraction: Respirable	
		Country of origin: Sweden Limit value type: NGV Limit value (8 h) : 0,1 mg/m <sup>3</sup> <b>Exposure limit letter</b> Letter description: C, M Source: AFS 2018:1	

### 8.2. Exposure controls

#### Safety signs



## Precautionary measures to prevent exposure

Appropriate engineering controls      Avoid dusty handling. Use good general ventilation and local process ventilation if there is a risk of dust formation.

## Eye / face protection

Required Properties      Water for eye and skin flushing must be available.  
 Suitable eye protection      Protective goggles with side protection, according to EN 166, must be used.

## Hand protection

Skin- / hand protection, short term contact      Protective gloves must be used if there is a risk of skin contact during preparation and use.  
 Suitable gloves type      Protective gloves that meet the requirements of (EU) regulation 2016/25 and the EN 374 standard derived from EU directive 89/686/EEC. The choice of a suitable glove depends not only on its material but also on quality characteristics and differences from different manufacturers.

Suitable materials      Natural rubber, neoprene or PVC.

## Skin protection

Suitable protective clothing      In case of contact with wet product, waterproof clothing and shoes should be used.

Protective clothing necessary properties      Remove/Take off immediately all contaminated clothing.

## Respiratory protection

Respiratory protection necessary at      In case of brief exposure to dust use respiratory filter device with particle filter P3. In case of intensive or longer exposure use self-contained respiratory protective device

## Hygiene / environmental

Personal protection equipment, comments      Wash contaminated clothes after use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	Gray powder
Colour	Grey
Colour intensity	Light.
Odour	Slight smell
pH	Status: In aqueous solution Value: 12
Melting point / melting range	Reason for waiving data: Not applicable

Freezing point	Reason for waiving data: Not applicable
Boiling point / boiling range	Reason for waiving data: Not applicable
Flash point	Reason for waiving data: Not applicable
Evaporation rate	Reason for waiving data: Not applicable
Flammability	The product is not flammable.
Vapour pressure	Reason for waiving data: Not applicable
Vapour density	Reason for waiving data: Not applicable
Density	Value: ~ 2200 kg/m <sup>3</sup>
Bulk density	Value: 1500 ~ 1700 kg/m <sup>3</sup>
Solubility	Medium: Water Method: Mixable Comments: Hardens when in contact with water.

## 9.2. Other information

### 9.2.2. Other safety characteristics

Miscibility	Miscible with water.
Comments	Cured material is no longer reactive or aggressive

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity	Reacts with damp/water and forms calcium hydroxide which gives the mixture a high pH. The product reacts with water and hardens
------------	---

### 10.2. Chemical stability

Stability	The product is stable if used according to supplier instructions.
-----------	---

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	None known.
------------------------------------	-------------

### 10.4. Conditions to avoid

Conditions to avoid	Avoid moisture.
---------------------	-----------------

### 10.5. Incompatible materials

Materials to avoid	Avoid contact with water except when using the product according to supplier instructions.
--------------------	--

### 10.6. Hazardous decomposition products

Hazardous decomposition products	None known.
----------------------------------	-------------

## SECTION 11: Toxicological information

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

Other toxicological data      The product is not classified as acute toxic.

#### Other information regarding health hazards

Assessment of acute toxicity, classification      The product is not classified as acute toxic.

Assessment of skin corrosion / irritation, classification      If the product is mixed with water it can be corrosive due to the high pH and consequently there is a risk of corrosive damage at long term contact with moist product or wet skin.

Assessment of eye damage or irritation, classification      Can cause corrosive damage, both as dry powder and wet mixture.

General respiratory or skin sensitisation      May be irritating to the respiratory system and mucous membranes

Assessment of respiratory sensitisation, classification      May be irritating to the respiratory system and mucous membranes.

Assessment of skin sensitisation, classification      The product is not classified as sensitizing. Contains traces of chrome. May cause allergic effects on already sensitized (chrome allergic) persons

Inhalation      Can lead to chronic problems.

Skin contact      Dry skin and dry cracks. Dust can irritate the respiratory system.

Eye contact      Permanent eye damage, corrosive.

Ingestion      Irritates the oral cavity, mucous membranes and digestive system.

Sensitisation      Contains traces of chromium. Which can cause allergic problems for already sensitized people.

Assessment of germ cell mutagenicity, classification      This product is not classified as mutagen.

Assessment of carcinogenicity, classification      This product is not classified as cancerogen.

Assessment of reproductive toxicity, classification      This product is not classified as toxic for reproduction.

#### Symptoms of exposure

In case of ingestion      Coughing and burning.

In case of skin contact      Itchy and reddened skin. In case of contact with wet product, wounds and corrosion damage may occur.

In case of inhalation      Cough and dry throat.

In case of eye contact      Irritating, stinging and watery eyes. May cause pain.

### 11.2 Other information

Endocrine disruption      The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605



at levels of 0.1% or higher.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecotoxicity The product is not classified as environmentally hazardous.

### 12.2. Persistence and degradability

Persistence and degradability description/evaluation Biologic biodegradability is not relevant for inorganic substances.

### 12.3. Bioaccumulative potential

Bioaccumulation, comments No information available for the product.

### 12.4. Mobility in soil

Mobility No information available for the product.

### 12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment The product, assessed on the basis of data, does not contain PBT substances (non-degradable/bio accumulative/toxic) or vPvB substances (very persistent and very bio accumulative) according to Regulation (EC) No. 1907/2006 (REACH) Annex XIII.

### 12.6. Endocrine disrupting properties

Endocrine disrupting properties The substance/mixture contains no components considered to have endocrine-disrupting properties according to REACH art.57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7. Other adverse effects

Additional ecological information Contact with water gives an pH which can be toxic for water living organisms.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Appropriate methods of disposal for the chemical The user is responsible for correct coding and labeling of the waste. Dispose of as special waste and in accordance with local and national regulations. Partial and residual amounts can be reused. Uncured product is classified as harmful waste but cured product is handled as construction waist.

Appropriate methods of disposal for the contaminated packaging The waste is handled according to official and local regulations. Packaging that is not completely emptied must be treated as the unused product. The packaging should preferably be reused alt. be recycled.

EWC waste code EWC waste code: 101314 waste concrete and concrete sludge  
Classified as hazardous waste: No

	EWC waste code: 200115 alkalines Classified as hazardous waste: Yes
EWL packing	EWC waste code: 150102 plasticpackaging Classified as hazardous waste: No
	EWC waste code: 150106 mixed packaging Classified as hazardous waste: No

## SECTION 14: Transport information

Dangerous goods No

### 14.1. UN number

### 14.2. UN proper shipping name

### 14.3. Transport hazard class(es)

### 14.4. Packing group

### 14.5. Environmental hazards

### 14.6. Special precautions for user

### 14.7. Maritime transport in bulk according to IMO instruments

## SECTION 15: Regulatory information

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

National regulations	Waste Ordinance (SFS 2020:614) Quartz – stone dust in the work environment (AFS 2015:2) Hygienic limit values (AFS 2018:1) Chemical Hazards in the Working Environment (AFS 2011:19)
Biocides	No
Nanomaterial	No
Legislation and regulations	ECHA, European Chemicals Agency, <a href="https://echa.europa.eu/sv/home">https://echa.europa.eu/sv/home</a> IMA Europe, Position Paper (February 2010) "Classification and labelling of respirable crystalline silica (RCS)"

### 15.2. Chemical safety assessment

## SECTION 16: Other information

Supplier's notes	The details in this document are based on the state of our knowledge at the time of revision. They do not constitute an assurance of the described product properties in terms of statutory warranty requirements.
List of relevant H-phrases (Section 2 and 3)	H315 Causes skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation.

---

Key literature references and sources for data	SDS from suppliers ESIS (European Chemical Substances Information System) <a href="http://esis.jrc.ec.europa.eu/">http://esis.jrc.ec.europa.eu/</a> IMA Europe, Position Paper (February 2010) "Classification and labelling of reparabel crystalline silica (RCS)
Last update date	14.10.2022
Version	1
Comments	This version of the Safety data sheet subside all further versions.