



SAFETY DATA SHEET

Bemix Elementfogbruk Vinter

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 02.12.2019

Revision date 10.09.2024

1.1. Product identifier

Product name Bemix Elementfogbruk Vinter

UFI XNJ5-50XV-300E-V2AD

Article no. 1100610, 1100615, 1100620, 1100625

GTIN No. 7331933722404, 7331933722428

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

Product group Dry mortar of the type expander mortar.

Use of the substance / mixture The product is mainly used in casting.

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

Website 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.
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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 (SiO₂)** 50 -70 %, Sodium nitrate 1 -3 %

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.

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 ₂) **	CAS No.: 14808-60-7 EC No.: 238-878-4		50 -70 %	
Sodium nitrate	CAS No.: 7631-99-4 EC No.: 231-554-3	Eye Irrit. 2; H319 Ox. Sol. 2; H272	1 -3 %	
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. Wash skin thoroughly with soap and water. 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: Call a POISON CENTER or doctor/ physician if you feel unwell.

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.
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

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.
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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.
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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.
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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.
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6.2. Environmental precautions

Environmental precautionary measures	Avoid spreading to drains and waterways.
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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	See section 7 for information on safe handling. See section 8 for information on personal protection equipment and section 13 for waste handling.
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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.
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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.
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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 additional product information, also see the 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
Sand containing quartz (SiO ₂) **	CAS No.: 14808-60-7	Country of origin: Sverige Limit value type: NGV Limit value (8 h) : 2,5 mg/m ³ Source: AFS 2018:1 Comments: 2,5 mg/m ³ (respirabelt) 5,0 mg/m ³ (inhalerbart)	
Dust, inorganic		Country of origin: Sweden Limit value type: NGV Limit value (8 h) : 5 mg/m ³ Source: AFS 2018:1 Particle fraction: Inhalable Country of origin: Sweden Limit value type: NGV Limit value (8 h) : 2,5 mg/m ³ Source: AFS 2018:1 Particle fraction: Respirable	

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.
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Eye / face protection

Suitable eye protection	At risk of direct contact or splashing use tightly sealed safety glasses.
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Hand protection

Skin- / hand protection, short term contact	At risk of direct contact or splashing use gloves.
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.
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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
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Hygiene / environmental

Personal protection equipment, comments	Wash contaminated clothes after use.
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Gray powder
Colour intensity	Light.
Odour	Slight smell
pH	Status: In aqueous solution Value: 12
Melting point / melting range	Reason for waiving data: Not applicable
Boiling point / boiling range	Reason for waiving data: Not applicable
Flash point	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
Bulk density	Value: 1500 ~ 1700 kg/m ³
Solubility	Medium: Water Method: Mixable Comments: Hardens when in contact with water.

Explosive properties	Not explosive
Oxidising properties	Not applicable

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
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10.2. Chemical stability

Stability	The product is stable if used according to supplier instructions.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	None known.
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10.4. Conditions to avoid

Conditions to avoid	Avoid moisture.
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10.5. Incompatible materials

Materials to avoid	Avoid contact with water except when using the product according to supplier instructions. Avoid acids, ammonium salts, aluminum or other non-precious metals as the product contains cement.
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10.6. Hazardous decomposition products

Hazardous decomposition products	None known.
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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.
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Other information regarding health hazards

Assessment of acute toxicity, classification	The product is not classified as acute toxic.
Assessment of skin corrosion / irritation, classification	The product is not classified as corrosive. But if the product is moist it can be corrosive due to the high pH and consequently there is a risk of corrosive damage at long

Assessment of eye damage or irritation, classification	term contact with moist product or wet skin. Can cause corrosive damage, both as dry powder and wet mixture.
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	May cause an allergic skin reaction. Dry skin and dry cracks. Dust can irritate the respiratory system.
Eye contact	Causes serious eye irritation. 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.
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SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity	The product is not classified as environmentally hazardous.
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12.2. Persistence and degradability

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

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 waste. It is the company that produce the waste that shall define a suitable waste code connected to industrial sector and process.

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	Chemical Hazards in the Working Environment (AFS 2011:19) Hygienic limit values (AFS 2018:1) Quartz – stone dust in the work environment (AFS 2015:2) Waste Ordinance (SFS 2020:614)
Biocides	No
Nanomaterial	No
Legislation and regulations	ECHA, European Chemicals Agency, https://echa.europa.eu/sv/home 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)	H272 May intensify fire; oxidiser. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H335 May cause respiratory irritation.
Key literature references and sources for data	SDS from suppliers ESIS (European Chemical Substances Information System) http://esis.jrc.ec.europa.eu/ 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 subsides all further versions.