



SAFETY DATA SHEET

Bemix A3 FF

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 14.11.2018

Revision date 04.04.2024

1.1. Product identifier

Product name Bemix A3 FF

UFI 25S7-20RN-H00A-RGAV

Article no. 1100090, 1100095, 1100230

GTIN No. 7331933522820, 7331933714287

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 contains antifreeze for castings down to -10 °C.

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.

Professional use Yes

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.

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*, Sand containing quartz (SiO₂)**, Sodium nitrate

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

This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

| Substance | Identification | Classification | Contents | Notes |
|---|--|--|----------|-------|
| Composition type | Mixture | | | |
| 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 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. Get medical advice/attention if you feel unwell. |
| Skin contact | Remove contaminated clothing. Wash with plenty of water or water and soap. In the event of a visible skin change or other complaints, seek medical advice (show label or SDS where possible). |
| Eye contact | Flush immediately with plenty of water or saline for at least 15 minutes. If possible, remove contact lenses. If irritation persists: Contact a doctor. Continue to rinse during transport to the hospital/doctor. |
| Ingestion | Give several small portions of water to drink. Do not induce vomiting 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 | 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

| | |
|------------------------------|---|
| 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.

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.

Other information The product is not classified as flammable.

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 Contain and collect spills with non-combustible absorbent materials (e.g. sand, earth, vermiculite) and place in containers for further handling of waste in accordance with current local/national regulations.

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. Dry powders are treated as hazardous goods.

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. Danger points apply only when the powder is moist.

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

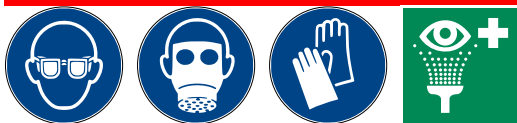
Comments if preventive industrial medical examinations are to be carried out Medical control - quartz (fibrosis-causing dust) every three years. Medical checks in working life (AFS 2019:3)

8.1. Control parameters

| Substance | Identification | Exposure limits | TWA Year |
|-----------------|---------------------|---|----------|
| 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 | |
| Quartz | CAS No.: 14808-60-7 | Country of origin: Sweden Limit value type: NGV Limit value (8 h) : 0,1 mg/m ³ Exposure limit letter 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

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

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 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.

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

Thermal hazards

Thermal hazards Not applicable for the product.

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

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|----------------|--|
| Physical state | Gray powder |
| Colour | Grey |
| Odour | Faint |
| 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. |
| Partition coefficient: n-octanol/ water | Reason for waiving data: Not applicable |
| Auto-ignition temperature | Reason for waiving data: Not applicable |
| Decomposition temperature | Reason for waiving data: Not applicable |
| Viscosity | Reason for waiving data: Not applicable |
| Explosive properties | Not explosive |
| Oxidising properties | Not applicable |

9.2. Other information

Other physical and chemical properties

| | |
|----------------------------------|--|
| Physical and chemical properties | Reacts with water, forms high pH, solidifies under some (harmless) heat development. |
|----------------------------------|--|

9.2.2. Other safety characteristics

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|-------------|--|
| 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. Avoid acids, ammonium salts, aluminum or other non-precious metals as the product contains cement.

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 information regarding health hazards

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|---|---|
| Assessment of skin corrosion / irritation, classification | If the produkt is moist 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. The product is not classified as causing eye damage or irritation. |
| Assessment of respiratory sensitisation, classification | The product is not classified as respiratory sensitization. May bee 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

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|-------------------------|--|
| 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

This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

The product is not classified as environmentally hazardous. Ecological data for the product are not available available.

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 data known.

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

This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

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

Uncured product is classified as harmful waste bur 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

Packages that are not properly emptied must be disposed of as the unused product. Empty packaging is disposed of according to the recycling system, if

| | |
|----------------|--|
| | possible. The waste is handled according to official and local regulations. |
| 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 | Hygienic limit values (AFS 2018:1) Chemical Hazards in the Working Environment (AFS 2011:19) Waste Ordinance (SFS 2020:614) Quartz – stone dust in the work environment (AFS 2015:2) |
| Biocides | No |
| Nanomaterial | No |
| Legislation and regulations | Position Paper Classification and labeling of crystalline silica (fine fraction), IMA Europe, May 2020. NEPSI Good Practice Guide - https://guide.nepsi.eu/ - The guidance is aimed at producers and users of products and raw materials containing crystalline silica. |

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 |
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properties in terms of statutory warranty requirements. This version of the safety data sheet supersedes all previous versions.

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.

Last update date

04.04.2024

Version

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