

SAFETY DATA SHEET

Complies with Regulation (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and is appropriately labelled in accordance with Regulation (EC) No 1272/2008 (CPL)

07.02.2008 Updated: 28.04.2025 Version: 4.0

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Designation

KIIRBETOON NAKS KB

UFI:

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

cementitious mortar

recommended use – construction

1.3. Details of the supplier of the safety data sheet

Manufacturer Uninaks AS

Valuste tee 1

90303 Lihula

Pärnumaa

Phone number: +372 656 5744

E-mail: uninaks@uninaks

www.uninaks.ee

1.4. Emergency telephone number

General telephone number 112

Poisoning Information Centre (www.16662.ee)

Telephone number: 16662

Open 24/7

When calling from abroad, telephone number +372 794 3794

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Skin Irrit. 2; H315 Causes skin irritation.

Eye Dam. 1; H318, Causes serious eye damage.

STOT SE 3; H335 May cause respiratory irritation.

Skin. Sens.1; H317 May cause an allergic skin reaction.

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2.2. Label elements

Hazard pictograms



Signal word

Caution

Hazard statements

Causes skin irritation. (H315)

Causes serious eye damage. (H318)

May cause respiratory irritation. (H335)

May cause an allergic skin reaction. (H317)

Precautionary statements

General

Keep out of reach of children. (P102)

Hazard prevention

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

Avoid breathing dust. (P261)

Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305 + P351 + P338)

IF SWALLOWED. Immediately call a POISON CENTRE/doctor. (P301 + P310)

Storage

No specific requirements.

Disposal

Dispose of contents/container in accordance with local regulations. (P501)

2.3. Other hazards

After mixing the product with water, it becomes corrosive.

If wet cement or mortar comes into contact with the skin due to seeping into a worker's shoes, gloves or protective clothing, it can result in skin irritation.

The product contains quartz; for work processes that may generate respirable quartz dust. The mixture/product does not contain substances that meet the conditions required for classification as PBT and/or vPvB.

This product does not contain substances that are 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.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable, the product is mixed together.

3.2. Mixtures

The product contains cement. The product has a chromium (VI) content that remains below the permitted limit of 2 mg/kg in unopened packaging for 12 months.

CAS No.	EINECS	Chemical name	Concentration	Classification
65997-15-1	266-043-4	Portland cement	ca 20%	CLP: STOT SE 3; H335 Skin. irrit. 2; H315 Eye dam.1; H318
1305-62-0	215-137-3	Slaked lime	ca 6%	CLP: STOT SE 3; H335 Skin. irrit. 2; H315 Eye dam.1; H318
65997-162-2	266-12-2	Aluminate cement	ca 20%	CLP: STOT SE 3; H335 Skin. irrit. 2; H315 Eye dam.1; H318 Skin.Sens.; H317

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

General notes:	In case of an accident, contact a doctor or emergency department and show the product label or chemical safety data sheet. A national Poisoning Information Centre may be contacted. Seek medical attention if there is any doubt about the victim's condition or if symptoms persist. Never give water or other fluids to an unconscious person!
Following inhalation:	Keep still. Go to fresh air. If necessary, administer oxygen or perform artificial respiration. Stay with the victim. If symptoms persist, seek medical advice. Show the doctor the product safety data sheet.
Following skin contact:	Take off dirty clothes and footwear. Skin that comes into contact with wet cement should be washed immediately with large amounts of cool, clean water. If irritation worsens or persists, seek medical attention. Show the doctor the product safety data sheet.

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- Following eye contact:** In case of contact, remove contact lenses and immediately flush the skin with plenty of warm (20–30 °C) water for 30 minutes, including under eyelids. Seek medical attention immediately.
- Following ingestion:** If the person is conscious, rinse their mouth with water and stay with the person. In case of loss of consciousness: seek medical attention immediately and take the relevant product safety data sheet or label with you. Do not induce vomiting unless advised to do so by a doctor. Place the victim's head in a position that prevents stomach contents from flowing back into the mouth or throat.
- Burn:** Not applicable.

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

Workers using cement can develop a chromium allergy, with symptoms ranging from a mild rash to severe skin ulcers. In addition to skin reactions, hexavalent chromium can cause occupational asthma. Symptoms include wheezing and difficulty breathing. Workers may develop both skin and respiratory allergies to hexavalent chromium. The product contains substances harmful to the eyes. Contact with substances may cause irreversible effects on the eyes or serious eye damage.

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

In case of exposure or suspected exposure: Seek medical attention immediately.

Information for medical professionals

Take this safety data sheet or product label with you.

SECTION 5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Non-combustible material.

5.2. Special hazards arising from the substance or mixture

Non-combustible material.

5.3. Advice for firefighters

Non-combustible material.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Use protective gloves, mask and goggles.

6.2. Environmental precautions

Avoid entry into lakes, waterways and sewers.

6.3. Methods and material for containment and cleaning up

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Carefully collect the spilled material. Moisten the material with water to prevent dust formation and spread. If possible, clean with conventional cleaning agents. Avoid solvents.

6.4. Reference to other sections

For waste handling see Section 13 "Disposal considerations".

For protective measures, see Section 8 "Exposure controls / personal protection".

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Smoking, eating, drinking and storing tobacco, food and beverages in the room is prohibited. For personal protective equipment, see Section 8 "Exposure controls / personal protection".

7.2. Conditions for safe storage, including any incompatibilities

Store the product in closed bags in a dry interior. Avoid contact with moisture.

7.3. Specific end use(s)

This product may only be used for the purposes described in section 1.2.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

No substances are included in the list of substances harmful to health with occupational exposure limits.

DNEL – Derived No Effect Level

Effective No Effect Concentration

Long-term, inhalation (8h): 6 mg/m³

PNEC – Predicted No-Effect Concentration

Concentration of a substance below which no environmental impact will occur: not applicable (solidifies).

Environmental impact may be caused by a solution of the mixture with pH above 9.

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Recommended methods of control	The particle size of the grist is < 80 µm for the dry mixture. Dust particles (cement) with the diameter of more than 4-10 µm may form during the use of the mixture. As human beings are only capable of sensing the presence of particles with the diameter of > 50 µm, it should be noted that visual assessment of the presence of dust is not always possible.
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Occupational exposure limits for chemical agents	See the occupational exposure limit values for chemical agents established in the Republic of Estonia.
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8.2. Exposure controls

Compliance with occupational exposure limit values must be checked regularly.

General recommendations

Provide workplaces with adequate hygiene facilities so that workers can wash their hands and face after work and before eating, drinking, smoking or using the toilet. Facilities for cleaning footwear and changing clothes must also be available. Clothing contaminated with wet cement must be removed promptly. Skin that comes into contact with wet cement should be washed immediately with large amounts of cool, clean water. Wear protective gloves, goggles and a mask when working with the product. Smoking, eating, drinking and storing tobacco, food and beverages in the room is prohibited.

Exposure scenarios

No exposure scenarios have been developed for this product.

Exposure limit values

Professional users must comply with the regulations on maximum occupational exposure limits for the working environment.

Engineering controls

Mix dry cement in well-ventilated areas.

Work in ways that minimize the amount of cement dust released. In connection with work processes that may generate respirable quartz dust, such as cutting and drilling concrete, exhaust air may not be re-used in accordance with the EU Cancer Regulation.

Hygiene measures

During breaks in product use and at the end of work, all parts of the body that have come into contact with the product must be thoroughly washed. Always wash your hands, arms, and face. Do not wash

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your hands with water from buckets used to clean tools. Take off contaminated clothing and wash it before reuse.

Control of environmental exposure

No specific requirements.

Individual protection measures, such as personal protective equipment

General information

Only use CE-marked protective equipment.

Respiratory tract protection

Type

For dusty work, use a reusable respirator or half-mask equipped with a particle filter: use P2 type dust masks and filters conforming to the E143 standard.

Single-use half-masks: use FFP1 or FFP2 masks conforming to the NE149 standard.

For manual mixing of the mixture, use FFP3 half-masks.

Skin protection

Recommended

Use boots, protective clothing with long closed sleeves. Remove contaminated clothing and wash skin thoroughly with soap and water when work is complete.

Hand protection

Material

Use impervious, abrasion- and alkali-resistant protective gloves (N. PVC, neoprene or vinyl), preferably with a cotton liner conforming to the NE374 standard, with a thickness of at least 0,7 mm. Wash your hands after work.

Eye protection

Type

Wear safety goggles conforming to the requirements of EN 166 standard to prevent eye contact when working with dry or wet mixtures. Wash your face after work.

Thermal hazard No

Environmental protection

Perform dust particle emission control according to the technology of use and the relevant conditions and regulations.

Exposure control in the aquatic environment: hydroxides are formed upon reaction of the mixture with water, with possible effect on pH changes in the aquatic environment. This may affect the operation of local wastewater treatment plants. In the event of anticipated discharge of wastewater to treatment plants, these must be neutralised beforehand.

Exposure control in terrestrial environment: no action necessary.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance: powder.

pH value at 20 °C: 11–13.

Colour: grey.

Density

Kinematic viscosity

Not applicable to solids.

Particle properties

Testing is impossible depending on the nature of the product.

Condition changes

Melting point / freezing point (°C)

Testing is impossible depending on the nature of the product.

Softening point / softening temperature range (waxes and pastes) (°C)

Not applicable to solids.

Boiling point (°C)

Not applicable to solids.

Vapour pressure

Testing is impossible depending on the nature of the product.

Vapour density

Not applicable to solids.

Decomposition point (°C)

Testing is impossible depending on the nature of the product.

Information on fire and explosion hazards

Flash point (°C)

Not applicable to solids.

Flammability (°C)

Testing is impossible depending on the nature of the product.

Self-ignition point (°C)

Testing is impossible depending on the nature of the product.

Explosion limit (% v/v)

Not applicable to solids.

Solubility

Water solubility

Testing is impossible depending on the nature of the product.

Partition coefficient: n-octanol/water

Testing is impossible depending on the nature of the product.

Solubility in fat (g/L)

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Testing is impossible depending on the nature of the product.

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions described in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

Not known.

10.4. Conditions to avoid

Not known.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents and strong reducing agents.

10.6. Hazardous decomposition products

The properties of the product will not deteriorate when used as specified in section 1.

SECTION 11. TOXICOLOGICAL INFORMATION

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

Classification of the mixture has been performed using a calculation method.

	Classification of mixture	Substances (components)
Acute toxicity	Not known.	Portland cement (CAS: 65997-15-1): Oral: no data available Dermal: rabbit, 24 h, 2000 mg/kg – no fatal cases ³ . Inhalation: (inhalation / rat, 4 h / day / 3 months): > 1 g/m ³ . ³ No fatal cases.

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Skin corrosion/irritation	<p>Irritating to respiratory system and skin.</p> <p>Risk of serious eye injuries. Serious eye damage / eye irritation. Causes severe eye damage. Irritating/corrosive to skin, irritating to skin.</p> <p>Specific target organ toxicity – single exposure: respiratory irritation. May cause respiratory irritation.</p>	<p>Portland cement (CAS: 65997-15-1):</p> <p>The cement contains a chromium reducing agent (< 1%), ensuring a soluble chromium (VI) compound content of < 0.0002% for 4 months from the time of production/packaging. If the cement contains a chromium (VI) reducing agent, and also in the event of inappropriate storage conditions or exceeding the storage period, the effectiveness of the reducing agent may decrease, and the cement may cause skin sensitisation. Otherwise, skin sensitisation is not expected and the H317 labelling is not necessary. [Reference (8)].</p>
Repeated exposure toxicity	<p>Not known.</p>	<p>Portland cement (CAS: 65997-15-1):</p> <p>No data available on repeated exposure toxicity. Acute effects at high concentrations. No chronic effects have been observed at low concentrations.</p>
Carcinogenicity	<p>Not known.</p>	<p>Portland cement (CAS: 65997-15-1):</p> <p>Epidemiological studies, data obtained from the scientific literature, and in vitro studies have identified no carcinogenic effects in animals.</p>
Germ cell mutagenicity	<p>Not known.</p>	<p>Portland cement (CAS: 65997-15-1):</p> <p>No mutagenicity data available.</p>
Reproductive toxicity	<p>Not known.</p>	<p>Portland cement (CAS: 65997-15-1):</p> <p>No reproductive toxicity data available.</p>
Aspiration hazard	<p>Not applicable (powder).</p>	

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Specific target organ toxicity – single exposure	Not known.	Portland cement (CAS: 65997-15-1): Single exposure: Cement dust may irritate respiratory system. Coughing, sneezing and respiratory complications when exceeding occupational exposure limit values for chemical agents. Repeated exposure: repeated inhalation of cement dust may increase the risk of pulmonary diseases.
Specific target organ toxicity – repeated exposure	Not known.	Portland cement (CAS: 65997-15-1): Repeated exposure: Cement dust may irritate respiratory system. Coughing, sneezing and respiratory complications when exceeding occupational exposure limit values for chemical agents. Repeated exposure: repeated inhalation of cement dust may increase the risk of pulmonary diseases.

Possible effects

Ingestion: ingestion of the mixture is unlikely due to its powdery nature; however, in the event it has occurred, irritation of the oral cavity, throat and oesophagus may occur.

Inhalation: cement dust may irritate respiratory system. Symptoms: cough, sneezing, breathing difficulties. Repeated and prolonged inhalation of dust may increase the risk of pulmonary diseases.

Skin contact: prolonged contact with the mixture may cause irritation, dermatitis, burns.

Eye contact: may cause serious and irreversible eye injuries.

Symptoms related to the physical, chemical and toxicological characteristics

Mixture dust may cause exacerbation of respiratory diseases (emphysema, asthma), as well as exacerbation of skin and eye diseases. Mixture dust may be irritating to the throat and respiratory tract. Possible symptoms: cough, sneezing, difficult breathing, shortness of breath.

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Delayed or immediate and also chronic effects after short- or long-term exposure	Long-term exposure to the mixture may cause dermatitis, eczema, conjunctivitis, respiratory diseases to the workers. Long-term (lasting several years) inhalation of mixture dust may cause an occupational lung disease called pneumoconiosis. Symptoms: respiratory inflammation, bronchitis, moderate emphysema. Because of allergy-causing chromium compounds contained in the mixture dust, bronchitis caused by pneumoconiosis may be accompanied by occupational asthma.
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Interaction	No data available.
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Other toxicological information	No data available.
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11.2. Information on other hazards

Information on endocrine disrupters not available.

Other information

Sand. The substance is classified as Group 1 by IARC.

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity

The product is not hazardous to the environment.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The mixture/product does not contain substances that meet the conditions required for classification as PBT and/or vPvB.

12.6. Endocrine disrupting properties

Not applicable.

12.7. Other adverse effects

Not known.

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SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

The product hardens after 5 to 6 hours after adding water and can then be treated as construction debris during construction works. Possible waste code 17 09 04.

European Waste Catalogue

Waste code. The specific waste code depends on the origin of the waste.

10 13 11 Wastes from cement-based composite materials other than those mentioned in 10 13 09 and 10 13 10.

Uncleaned packaging

Handling must be carried out in accordance with official regulations.

Recommendations: empty the bag thoroughly.

SECTION 14. TRANSPORT INFORMATION

Transport classification for air, land, rail, sea, inland waterways transport is not applicable to the mixture.

Follow the occupational safety instructions set out in Section 8.

	Land transport ADR/RID	Inland waterways transport ADN	Sea transport IMDG	Air transport ICAO/IATA
14.1. UN number or ID 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

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Restrictions on use

Avoid contact with the product by pregnant and lactating women. Potential risks and technical precautions or design solutions to be implemented in the workplace to prevent exposure must be taken into account.

Requirements for special training

No specific requirements.

SEVESO – Hazard categories / Named dangerous substances

Not applicable.

Other information

Not applicable.

Source

List of hazardous factors in the working environment and jobs in which employment of minors is prohibited, adopted on 11.06.2009 No. 94. Commission Regulation (EU) No 1357/2014 of 18 December 2014 replacing Annex III to Directive 2008/98/EC of the European Parliament and of the Council on waste and repealing certain Directives. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP). Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

Not applicable.

SECTION 16. OTHER INFORMATION

The safety data sheet must be stored at workplace and be easily accessible to the worker.

Abbreviations and H phrases in accordance with Regulation 1272/2008/EC

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
Eye Dam. 1	Causes serious eye damage; Hazard Category 1
Skin. Irrit. 2	Skin Irritant; Hazard Category 2
STOT-SE 3	Specific target organ toxicity – single exposure; Hazard Category 3, Respiratory irritation
Skin Sens. 1	Causes skin corrosion. / Causes skin irritation. This information should be included on the product label even if the concentration of the substance is one tenth of the limit value.
CAS	Chemical Abstracts Service
EINECS	European Inventory of Existing Commercial Chemical Substances
PBT	Persistent, Bioaccumulative and Toxic. Predicted no-effect concentration

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vPvB very Persistent and very Bioaccumulative

Other information

The classification of the mixture for health hazards is in accordance with the calculation methods set out in Regulation (EC) No 1272/2008 (CLP).

Other

The information contained in this safety data sheet applies only to this specific product (referred to in Section 1) and may not necessarily apply to other chemicals or products. It is recommended that this safety data sheet be handed over to the actual user of the product. The information contained in this safety data sheet should not be used as a product specification. Country-language: EN-gb