SAFETY DATA SHEET according to regulation of Europian parliament and Council (ES) number 1907/2006 according Committee regulation (EU) number 878/2020 Date of Issue: 10.05.2024 Version number: 1 No. of pages: Revision date: Replaces version: FORTE OPRAVNY BETON Product name: 1. Section 1: Identification of substance/mixture and of the company/undertaking 1.1 FORTE OPRAVNÝ BETON Product identifier: The product is not a nanoform, nor does it contain any nanoforms. UFI code: N814-4GNQ-AD1H-JGS9 1.2 Relevant identified uses of the substance or mixture and uses advised against: 1.2.1 Relevant identified use: Lifecycle phases: PW (wide range of use by professionals - basic) C (consumer use) Usage Name: SU0 Other usage description: Quick-hardening material for work with concrete and concrete repairs. Concrete coating and filling mixture. Market description: PC1; PC9a; PC15 Contributing Activity Name: Manual activities involving hand contact Contributing activities descriptor: PROC19 More information: technical function of the product in Quick-hardening material for work with concrete and concrete this use: repairs. Concrete coating and filling mixture. quantity to be used: 0 - 10 t / yr No Regulatory status by specific use: limited number of devices for this No use. the subsequent period of use 24 months relevant to this use. an overview of environmental ERC2; ERC8c; ERC8f; ERC10a; release categories for each life ERC11a cycle stage: supplied as a mixture 1.2.2 Uses advised against: all other uses 1.3 Details about the supplier of the safety data sheet: Producer and supplier: AUSTIS a. s. Adress: K Austisu 680, 154 00 PRAHA 5 - Slivenec +420 251 099 111 Telephone number: Fax: +420 251 099 112 austis@austis.cz e-mail 1.4 +420 725 491 378 Emergency telephone number: +420 251 099 247 Centre of the Toxicologicaly information Na Bojišti 1, 120 00 Prague 2, Tel.: +420 224 919 293 C7 2. Section 2: Hazard identification 21 Classification of the substance or mixture The mixture is classified as dangerous. Classification under Regulation 1272/2008/EU Eye Dam. 1; H318 STOT SE 3; H335 Skin Irrit. 2; H315 Skin Sens. 1; H317 2.2 Label elements Symbols: GHS05 GHS07 Signal word: Dangerous It contains a hazardous substance: Cement (Portland) clinker, dust from the production of Portland clinker Hazard Statement: H318: Causes serious eye damage. H335: May cause respiratory irritation. H315: Causes skin irritation. H317: May cause an allergic skin reaction.

	Precautionary Statement:	protection. P305+P351+P338: IF IN EYES several minutes. Remove cont Continue rinsing. P310: Immediately call a POIS P302+P352: IF ON SKIN: Was P332+P313: If skin irritation oc	protective clothing/eye protection/ face S: Rinse cautiously with water for act lenses, if present and easy to do.
2.3	Other hazards:		eria to be classified as PBT or vPvB endocrine disruptor, nor does it
	Other risks:	unknown	
3.	Section 3: Composition / information on ingredients		
	Mixture of cement, graded quartz sand and refining chemicals.		
3.2	Mixtures Chemical name:	Silico	Portland coment
	Content [%]:	Silica 50	Portland cement 20 - 50
	Index number:	Not Assigned	20 - 50 Not Assigned
	CAS:	14808-60-7	65997-15-1
	EC number (EINECS):	238-878-4	266-043-4
	REACH Registration number:	Not Assigned	Not Assigned
	Classification according to Directive 1272/2008/EU:	not Assigned	Eye Dam. 1; H318 STOT SE 3; H335 Skin Irrit. 2; H315 Skin Sens. 1; H317
	Specific concentration limits, M-factors:	Not Assigned	Not Assigned
		Established Exposure limit EH40/2005 (WELs):	Established Exposure limit EH40/2005 (WELs):
	Full text of H - phrases in Section 16		
4.	Section 4: First aid measures		
4.1	Description of first aid measures When providing first aid it is necessary to ensure safety of both victi must be kept in mental and physical rest. Victim must be kept warm sheet with information about substance or mixture with you in case of Inhalation: Break exposure, move to fresh air and protect the victim breath or other symptoms persist. When on skin: Put away contaminated clothes and shoes, wash the soap can be used; seek doctor's advice, especially if the skin stays Eye Contact: Rinse eyes with plenty of water (10 to 15 minutes). Ke contact lenses remove them immediately. Seek medical attention. Ingestion: Do not induce vomiting! Drink at least 0,5 liters of water w Toxicology Information Centre for need of medical treatment with int SDS.	a and must not get cold. Take original of medical examination. from cold. Provide medical treatmen e contaminated spot with plenty of tep irritated. ep your eyes opened (even by force with 5 to 10 tablets of crushed charco	container with label or safety data t especially if coughing, shortness of bid water; if the skin is not irritated, if necessary). If the victim is wearing al. In case of nausea contact the
4.2	Most important symptoms and effects, both acute and delayed		
	The product may have adverse effects through inhalation and if swa	allowed. It can irritate skin, mucous m	embranes and eyes.
4.3	Indication of any immediate medical attention and special treatment	t needed:	Symptomatic treatment
5.	Section 5: Fire-fighting measures		
5.1	Extinguishing media		
	Suitable extinguishing media: not relevant		
	Unsuitable extinguishing media: not relevant		
5.2	Special hazards arising from the substance or mixture: none		
5.3	Advice for firefighters: none		
6.	Section 6: Accidental release measures		
6.1	Personal precautions, protective equipment and emergency proceed respirator.	ures: Appropriate protective gloves, g	goggles, appropriate clothing, or
6.1.1	For workers except for those intervening in emergency cases - instria) use of appropriate protection (including personal protective equip clothing contamination;	•	

6.1.2 6.2 6.3 6.3.1 6.3.2	For workers intervening in emergency cases - instructi	e e wation from dangerous area or consultation with an expensions for appropriate materials of personal protective suits solution - leakage into drains, surface water, groundwater of e mixture	s (see part 8 BL)	
6.4	Reference to other sections: See also section 7., 8 and			
7.	Section 7: Handling and storage			
7.1	Measures for safe manipulation:			
7.1.1	(enclosing of leaked mixture, sealing of demaged pack on) andlimit the production of aerosol and dust.b) Obey measures for prevention of manipulation with	with health and safety rules for work and have to obey th kages and so on), for fire prevention (remove ignition sou incompatible substances or mixtures (see part 10) in cor	urces, non-sparkling tools and so mmon areas.	
	not expose to direct sunlight or other heat sources.	om +5 to +25 °C, do not expose to temperature under 0 °		
7.1.2	Instructions for general hygiene of work:	into canalization, surface of underground water allu soll.		
1.1.2	a) Do not eat, drink or smoke on work areas.			
		an and water, eventually use regeneration hand cream		
	b) After working with product wash your hands with soap and water, eventualy use regeneration hand cream.			
7.2	c) Before entering dining areas, remove contaminated clothing and protective equipment. Conditions for safe storage of substances and mixtures including incompatible substances and mixtures: Store in dry and well-ventilated			
1.2	storages in original closed packages in temperatures f	from +5 to +25 °C, do not expose to temperature under 0 revent any contact with oxidazing substances, strong acid) °C (not even in short term). Do	
7.3	Specific end use: see part 1.2; coating procedure and documentation.	recomendations are listed in technical list of the product	, or in other product	
8.	Section 8: Exposure controls / personal protection	1		
8.1	Control parameters:	•		
0.1	Exposure limits EH40/2005 (WELs):			
	Chemical name:	Portland cement inhalable dust / respirable dust	Silica, respirable crystalline	
	CAS:	65997-15-1	14808-60-7	
	Long-term exposure limit [mg/m ³] (TWA/8 h)	65997-15-1 10 / 4	14808-60-7 0,1	
8.2	Long-term exposure limit [mg/m ³] (TWA/8 h) Short-term exposure limit [mg/m ³] (15 minut) Exposure controls	10 / 4 -	0,1 -	
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8.2 8.2.1 8.2.2	Long-term exposure limit [mg/m ³] (TWA/8 h) Short-term exposure limit [mg/m ³] (15 minut) Exposure controls Ensure adequate ventilation. Ensure protective equipn after thorough cleaning. Wash your hands and face wi	10 / 4 - ment is worn while working with the product. Contaminate ith soap and water after use. Do not eat, drink or smoke work precautions to protect the health and make sure the worki	0,1 - ed work clothes can be reused while working with the product.	
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8.2.1	 Long-term exposure limit [mg/m³] (TWA/8 h) Short-term exposure limit [mg/m³] (15 minut) Exposure controls Ensure adequate ventilation. Ensure protective equipment after thorough cleaning. Wash your hands and face with a propriate engineering controls: Observe the usual period line in the protection measures, such as personal protection. Appropriate engineering controls: Observe the usual period line is governed by Directive 89/68 this Regulation. a) Eyes and face protection: Suitable safety goggles (fills) Skin protection: Common safety clothing with long servet. b-1) Hands protection: suitable protective gloves (maduate reparing hand cream. c) Airways protection: with proper area ventilation not requarter-shiled with gass filter (EN 140, EN 141). 	10 / 4 - ment is worn while working with the product. Contaminate ith soap and water after use. Do not eat, drink or smoke w precautions to protect the health and make sure the workin ective equipment: 36/EEC therefore any use of personal protective equipme EN 166), face shiled. sleave and shoes; take of the contaminated clothing and de from rubber - according to EN 374), wash your hands w required. When spraying, face half-shiled is recomended	0,1 - ed work clothes can be reused while working with the product. ing space is well-ventilated. ent must be in accordance with wash your skin with soap and with soap and water after work, I for gass filtration (EN 405) or	
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	Odor threshold:	Not specified Not specified
	d) Melting/Freezing point (temperature range) (°C):	Not specified
	e) Boiling point or initial boiling point and boiling range (°C)	Not specified
	f) Combustibility: g) Explosion limints: upper limit (% volume):	Not specified
	lower limit (% volume):	Not specified
		Not specified
	h) Point of ignition:	Not specified
	i) Temperature of self-ignition:	Not specified
	j) Temperature of decomposition (°C):	11,0 - 13,5 (when mixed with water)
	k) pH (23 °C) I) Kinematic viscosity:	Not specified
	· ·	Not opcomed
	m) Solubility (23 °C) - with water:	up to 1,5 g/L with water
	- with fats:	Not specified
	n) Partition coefficient n - octanol/water:	Not specified
	,	Not specified
	o) Steam pressure (20 °C):	approximately 1,7 - 1,9 g.cm ⁻³
	 p) Density and/or relative density (20 °C): q) Relative viscosity of steam (at °C): 	Not specified
	r) Particles characteristics:	Not specified
2	Other information:	Not opcomed
.2.1		is not relevant
.2.2	Information about class of physical hazard: Other safety characteristics	is not forward
	Evaporation rate:	Not specified
	Dynamic viscosity:	Not specified
	Explosive properties:	Not specified
	Oxidizing properties:	Not specified
0. 0.1 0.2 0.3	Section 10: Stability and reactivity Product is stable under recommended storage and handling condit Reactivity: Product is not reactive under recommended storage and Chemical stability: Product is stable under recommended storage a limited duration of action Possibility of hazardous reactions: unknown	
0.1 0.2 0.3 0.4	Product is stable under recommended storage and handling condit Reactivity: Product is not reactive under recommended storage and Chemical stability: Product is stable under recommended storage a limited duration of action Possibility of hazardous reactions: unknown Conditions to avoid: uncontrolled contact with water and acids.	handling conditions.
0.1 0.2 0.3	Product is stable under recommended storage and handling condit Reactivity: Product is not reactive under recommended storage and Chemical stability: Product is stable under recommended storage a limited duration of action Possibility of hazardous reactions: unknown Conditions to avoid: uncontrolled contact with water and acids. Incompatible materials: water and acids	d handling conditions. and handling conditions. The product contains a reducing agent with a
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).1).2).3).4).5).6	Product is stable under recommended storage and handling condit Reactivity: Product is not reactive under recommended storage and Chemical stability: Product is stable under recommended storage and limited duration of action Possibility of hazardous reactions: unknown Conditions to avoid: uncontrolled contact with water and acids. Incompatible materials: water and acids Hazardous Decomposition Products: Thermal decomposition: the re the dust after dispersing it into the atmosphere. Section 11: Toxicological information Information about hazard classes acording to (ES) č. 1272/2008 a) acute toxicity:	d handling conditions. and handling conditions. The product contains a reducing agent with a nixture itself is a product of thermal decomposition, it is dangerous to inha the classification cirteria are not met based on avilable information
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0.1 0.2 0.3 0.4 0.5 0.6 1. 1.1	Product is stable under recommended storage and handling condit Reactivity: Product is not reactive under recommended storage and Chemical stability: Product is stable under recommended storage and limited duration of action Possibility of hazardous reactions: unknown Conditions to avoid: uncontrolled contact with water and acids. Incompatible materials: water and acids Hazardous Decomposition Products: Thermal decomposition: the rest the dust after dispersing it into the atmosphere. Section 11: Toxicological information Information about hazard classes acording to (ES) č. 1272/2008 a) acute toxicity: - LD ₅₀ , oral, rat (mg.kg ⁻¹): - LD ₅₀ , dermal, rat or rabbit (mg.kg ⁻¹): - LC ₅₀ , by inhalation, rat, for aerosols or particles (mg.kg ⁻¹): - LC ₅₀ , by inhalation, for quartz-sand dust (mg.kg ⁻¹): b) corrosivity/skin irritation: c) serious eye damage / eyes irritation: d) sensitivity of airways / sensitivity of skin: e) germ cells mutagenicity: f) carcinogenicity: g) toxicity for reproduction: h) toxicity for specific organs - single exposure: i) toxicity for specific organs - multiple exposures: j) hazards while inhaled: Human experience: Tests on animals:	 d handling conditions. and handling conditions. The product contains a reducing agent with a inixture itself is a product of thermal decomposition, it is dangerous to inher the classification cirteria are not met based on avilable information the classification cirteria are not met based on avilable information the classification cirteria are not met based on avilable information the classification cirteria are not met based on avilable information the classification cirteria are not met based on avilable information the classification cirteria are not met based on avilable information 0,3 (for intermittent exposure for 10 years) Causes serious eye damage. May cause an allergic skin reaction. the classification cirteria are not met based on avilable information the classification cirteria are not met based on avilable information the classification cirteria are not met based on avilable information the classification cirteria are not met based on avilable information the classification cirteria are not met based on avilable information the classification cirteria are not met based on avilable information the classification cirteria are not met based on avilable information the classification cirteria are not met based on avilable information the classification cirteria are not met based on avilable information the classification cirteria are not met based on avilable information the classification cirteria are not met based on avilable information the classification cirteria are not met based on avilable information formation the classification cirteria are not met based on avilable information the classification cirteria are not met based on avilable information the classification cirteria are not met based on avilable information the classification cirteria are not met based on avilable information the classification cirteria are not met based on avilable information the classification cirteria are not met based on avilable information the classification cirteria a

11.1.3	If enough information from substance/mixture trials exist, it might be necessary to sum up results of used studies, for example according to	not relevant
11.1.4	exposure run If the classification criteria are not met for specific hazard class, information explaining the justification should be stated.	relevant concentration limits were not exceeded
11.1.5	Information about likely exposure run	no effects on human health are known
11.1.6	Symptoms corresponding to physical, chemical and toxicological features	no effects on human health are known
11.1.7	Belated and immediate effects and chronical effects of short/long term exposure	no effects on human health are known
11.1.8	Interactive effects	unknown
11.1.9	Lack of specific data	not relevant
	Mixtures	see part 8
11.1.11	Mixtures information compared to substance information	
	1) Substances in the mixture can react with each other inside of a body a	•
	2) It is necessary to consider, if concentration of each substance is suffic	
	a) if the information are doubled, they are listed only once for a substance as a whole, for example when two different substances are causing vomiting and diarrhea;	Not relevant for this mixture.
	b) if it is not likely the effects will appear with current concentrations, for example when weak irritating substance is disolved in non-irritating solution to a level under certain concentration;	Not relevant for this mixture.
	c) if the information about mutual effects of substances in the mixture are unavilable, no assumptions will be listed and instead effects on healtf of each substance will be listed.	see part 8
	Additional data:	None
11.2	Other hazards information	
11.2.1	Features causing disruption of endocrinal system	Not relevant for this mixture.
11.2.2	Other information	None
12.	Section 12: Ecological information	
12.1	Toxicity	
	Acute toxicity for water organisms:	
	- LC ₅₀ , 96 hours, fish (mg/kg):	Not set
	- LC ₅₀ , 48 hours, fish (mg/kg):	Not set
	- IC ₅₀ , 72 hours, algae (mg/kg):	Not set
	Toxicity to other environments:	not determined, the mixture is poorly soluble in water, but if large quantities leak, the aquatic environment may strongly alkaline and therefore damage aquatic organisms
12.2	Persistence and degradability:	it is assumed that it is practically non-existent
12.3	Bioaccumulative potential:	Not set
12.4	Mobility in soil:	small even in unused state, in hardened state it is immobile
12.5	Results of PBT and vPvB	The mixture does not meet the criteria for classification as PBT or vPvB.
12.6	Features causing disruption of endocrinal systém	Unknown for this mixture
12.7	Other adverse effects:	See Section 2
	Additional data:	The product must not leak into surface and groundwater. Notify competent authorities immediately in case of accident.
13.	Section 13: Disposal considerations	
13.1	Methods of waste management:	
	(a) Appropriate methods of disposal of the substance or mixture and con Waste Act (as amended) and the applicable Waste Disposal Regulations packaging in marked waste collection containers and hand it over for dis authorised to do so. Do not dispose of unused product down the drain. It be used for energy recovery in a waste incinerator (except for metal) or of cleaned packaging may be handed over for recycling. Always comply with	s (as amended). Place the unused product and contaminated posal to an authorised waste disposal person (specialised company) must not be disposed of with municipal waste. Empty packaging may lisposed of in a landfill of the appropriate classification. Completely
	Translated with www Deepl_com/Translator (free version) b) Physical / chemical properties that can affect ways of waste handling:	
	c) Avoid disposal through sewer: It is necessary to prevent leakage of bo	
	d) Special precautions for the recommended waste management: Avoid	contact with skin, mucous membranes and eyes.
14.	Section 14: Transport information	
14.1	UN number or ID number	Not specified
	Required shipping label:	
	ADR/RID/ADN:	Not specified

	IMDG:		Not specified
	ICAO TI:		Not specified
4.2	Proper na	ame of United Nations for the shipment	
	ADR/RID		Not specified
	IMDG:		Not specified
	ICAO TI:		Not specified
.3		t hazard class(es):	
	ADR/RID		Not specified
	IMDG:		Not specified
	ICAO TI:		Not specified
1.4	Packing	aroup.	Not specified
+.4	ADR/RID		Not specified
	IMDG:	Adn.	
			Not specified
	ICAO TI:	and the second of	Not specified
1.5		nental hazards:	Not specified
.6	Special p	precautions for user:	See Section 8
	• •	provisions (ADR):	Not specified
1.7		ass-transport according to instrumenst IMO:	Not applicable
	Notes:		None
	Additiona	ıl data:	None
j.	Section	15: Regulatory information	
.1		ealth and environmental regulations/legislation specific	for the substance or mixture.
	Regulatio	on of the European Parliament and Council Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation ar
	Restrictio	on of Chemicals establishing European Chemicals Agen	icy, as amended
	Regulatio	on of the European Parliament and Council Regulation (EC) No 1272/2008 (CLP) as amended
	Commisi	on directive (EU) No. 878/2020	
	EH40/20	05 Workplace exposure limits (second edition, published	d 2011). Containing the list of workplace exposure limits for use with the
	Control o	f Substances Hazardous to Health Regulations (as ame	ended)
5.2	Assessm	ent of chemical safety of mixture:	Not performed
6.	Section	16: Other information	
	Informati	on stated in this safety data sheet is based on the curre	nt knowledge of EU legislation. It is a recommendation in terms of health an
		on stated in this safety data sheet is based on the curre well as recommendation related to ecological matters t	
	safety as	well as recommendation related to ecological matters t	
		well as recommendation related to ecological matters t	
	safety as a) New e	well as recommendation related to ecological matters t	hat are essential to safe usage of the product.
	safety as a) New e b) key or	well as recommendation related to ecological matters t dition. legend for abbreviations and accronyms used in the sa	that are essential to safe usage of the product. fety data sheet:
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	safety as a) New e b) key or LD ₅₀ LC ₅₀	well as recommendation related to ecological matters t dition. legend for abbreviations and accronyms used in the sa The lethal dose for 50 % mortality of the test populati Lethal concentration for 50 % mortality of the test pop	that are essential to safe usage of the product. fety data sheet: ion relative to a control sample. pulation relative to a control sample.
	a) New e b) key or LD ₅₀ LC ₅₀ EC ₅₀	well as recommendation related to ecological matters t dition. legend for abbreviations and accronyms used in the sa The lethal dose for 50 % mortality of the test populati Lethal concentration for 50 % mortality of the test pop Effective concentration for 50 % mortality of the test	that are essential to safe usage of the product. fety data sheet: ion relative to a control sample. pulation relative to a control sample. population relative to a control sample.
	a) New e b) key or LD ₅₀ LC ₅₀ EC ₅₀ EC ₁₀	well as recommendation related to ecological matters t dition. legend for abbreviations and accronyms used in the sa The lethal dose for 50 % mortality of the test populati Lethal concentration for 50 % mortality of the test pop Effective concentration for 50 % mortality of the test Effective concentration for 10 % mortality of the test	that are essential to safe usage of the product. fety data sheet: ion relative to a control sample. pulation relative to a control sample. population relative to a control sample. population relative to a control sample.
	safety as a) New e b) key or LD_{50} LC_{50} EC_{10} IC_{50}	well as recommendation related to ecological matters t dition. legend for abbreviations and accronyms used in the sar The lethal dose for 50 % mortality of the test populati Lethal concentration for 50 % mortality of the test pop Effective concentration for 50 % mortality of the test Effective concentration for 10 % mortality of the test Inhibitory concentration to reduce the growth or grow	that are essential to safe usage of the product. fety data sheet: ion relative to a control sample. pulation relative to a control sample. population relative to a control sample. population relative to a control sample. th rate of 50% of the test population relative to a control sample.
	safety as a) New e b) key or LD_{50} LC_{50} EC_{50} EC_{10} IC_{50} LL_{50}	well as recommendation related to ecological matters t dition. legend for abbreviations and accronyms used in the sa The lethal dose for 50 % mortality of the test populati Lethal concentration for 50 % mortality of the test pop Effective concentration for 50 % mortality of the test Effective concentration for 10 % mortality of the test Inhibitory concentration to reduce the growth or grow Lethal loading doses of test substance resulting in 50	that are essential to safe usage of the product. fety data sheet: ion relative to a control sample. pulation relative to a control sample. population relative to a control sample. population relative to a control sample. th rate of 50% of the test population relative to a control sample. % mortality
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c) important references to literature and data sources

Initial data sources are safety data sheets of the inherent (components).

d) in case of mixture, statement about evaluation method used for classification according to article 9 of directive (ES) number 1272/2008 For evaluation purposes, principles of extrapolation were used. Calculation methods.

e) List of H-sentences, whose full form is not listed in other parts.

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H335 May cause respiratory irritation.

Guidelines for training:

As required by national legislation.

Recommended restrictions on use (i. e. non-statutory recommendations by supplier):

Product should not be used for other purposes than specified (see section 1.2). Because specific conditions of use are beyond supplier's control, it is the responsibility of the user to adapt all the mentioned information to local law and regulations. Safety information describe the product with regard to safety and cannot be considered technical information about the product.