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: 17.08.2023 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 technical function of the product in Quick-hardening material for work More information: 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: ERC2; ERC8c; ERC8f; ERC10a; an overview of environmental 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 contr Continue rinsing. P310: Immediately call a POIS P302+P352: IF ON SKIN: Was P332+P313: If skin irritation oc P501: Dispose of contents/con	protective clothing/eye protection/ face 5: 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			
0.0	Mixture of cement, graded quartz sand and refining chemicals.			
3.2	Mixtures Chemical name:	Silion	Doutland compat	
	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 victim and person rescuing. It is necessary to avoid chaotic behavior. Victim must be kept in mental and physical rest. Victim must be kept warm and must not get cold. Take original container with label or safety data sheet with information about substance or mixture with you in case of medical examination. Inhalation: Break exposure, move to fresh air and protect the victim from cold. Provide medical treatment especially if coughing, shortness of breath or other symptoms persist. When on skin: Put away contaminated clothes and shoes, wash the contaminated spot with plenty of tepid water; if the skin is not irritated, soap can be used; seek doctor's advice, especially if the skin stays irritated. Eye Contact: Rinse eyes with plenty of water (10 to 15 minutes). Keep your eyes opened (even by force if necessary). If the victim is wearing contact lenses remove them immediately. Seek medical attention. Ingestion: Do not induce vomiting! Drink at least 0,5 liters of water with 5 to 10 tablets of crushed charcoal. In case of nausea contact the Toxicology Information Centre for need of medical treatment with information about composition of the mixture from the original container or SDS. 			
4.2	Most important symptoms and effects, both acute and delayed			
	The product may have adverse effects through inhalation and if sw	allowed. It can irritate skin, mucous m	embranes and eyes.	
4.3	Indication of any immediate medical attention and special treatmer	nt 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.	dures: Appropriate protective gloves, g	goggles, appropriate clothing, or	
6.1.1	For workers except for those intervening in emergency cases - instructions in case of accidental spill and leak of substance or mixture: a) use of appropriate protection (including personal protective equipment according to part 8 BL), in order to avoid any skin, eyes or personal clothing contamination;			

6.1.2 6.2 6.3 6.3.1 6.3.2	For workers intervening in emergency cases - instru	acuation from dangerous area or consultation with an expert ctions for appropriate materials of personal protective suits (s pollution - leakage into drains, surface water, groundwater or cleaning: r mixture n; ure	see part 8 BL)		
6.4	Reference to other sections: See also section 7., 8 a	and 13.			
7.	Section 7: Handling and storage				
7.1	Measures for safe manipulation:				
7.1.1	(enclosing of leaked mixture, sealing of demaged pa on) andlimit the production of aerosol and dust.b) Obey measures for prevention of manipulation with	ar with health and safety rules for work and have to obey thes ackages and so on), for fire prevention (remove ignition sourc th incompatible substances or mixtures (see part 10) in comr from +5 to +25 °C, do not expose to temperature under 0 °C	es, non-sparkling tools and so non areas.		
	not expose to direct sunlight or other heat sources. d) Prevent the contamination of environment, i.e. lea	ak into canalization, surface or underground water and soil.			
7.1.2	Instructions for general hygiene of work:	-			
	a) Do not eat, drink or smoke on work areas.				
		soap and water, eventualy use regeneration hand cream.			
7.2	,	c) Before entering dining areas, remove contaminated clothing and protective equipment.			
1.2	Conditions for safe storage of substances and mixtures including incompatible substances and mixtures: Store in dry and well-ventilated storages in original closed packages in temperatures from +5 to +25 °C, do not expose to temperature under 0 °C (not even in short term). Do not expose to direct sunlight or other heat sources. Prevent any contact with oxidazing substances, strong acids and bases. Do not store with food, drinks and feed. The product is not a flamable liquid according to ČSN 65 0201.				
7.3	Specific end use: see part 1.2; coating procedure and recomendations are listed in technical list of the product, or in other product documentation.		or in other product		
8.	Section 8: Exposure controls / personal protection	on			
8.1	Control parameters:				
	Exposure limits EH40/2005 (WELs):				
	Chemical name:	Portland cement inhalable Si dust / respirable dust	ilica, respirable crystalline		
	CAS:	65997-15-1	14808-60-7		
	Long-term exposure limit [mg/m ³] (TWA/8 h)	10 / 4	0,1		
8.2	Short-term exposure limit [mg/m ³] (15 minut) Exposure controls	-	-		
		pment is worn while working with the product. Contaminated with soap and water after use. Do not eat, drink or smoke wh			
8.2.1 8.2.2	Appropriate engineering controls: Observe the usual Individual protection measures, such as personal pro	l precautions to protect the health and make sure the working otective equipment:	g space is well-ventilated.		
		686/EEC therefore any use of personal protective equipment	must be in accordance with		
	 a) Eyes and face protection: Suitable safety goggles (EN 166), face shiled. b) Skin protection: Common safety clothing with long sleave and shoes; take of the contaminated clothing and wash your skin with soap and water. 				
	b-1) Hands protection: suitable protective gloves (made from rubber - according to EN 374), wash your hands with soap and water after work, use reparing hand cream.				
	 c) Airways protection: with proper area ventilation not required. When spraying, face half-shiled is recommended for gass filtration (EN 405) or quarter-shiled with gass filter (EN 140, EN 141). d) Heat hazard: Special attention must be paid to construction of personal protective measures, when specifying protective measures for 				
8.2.3	a) Heat hazard: Special attention must be paid to construction of personal protective measures, when specifying protective measures for protection against materials, which are considered to be heat hazard. Not relevant for this product. Environmental exposure controls: Avoid contamination of surface and groundwater and soil.				
9 .	Section 9: Physical and chemical properties				
9.1.	Information on basic physical and chemical propertie	es loose material			
	a) State b) Color	gray			
	c) Odour:	odorless			

	Odor threshold:	Not appeiling
		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:	Not specified
	g) Explosion limints: upper limit (% volume):	Not specified
	lower limit (% volume):	Not specified
	h) Point of ignition:	
	i) Temperature of self-ignition:	Not specified
	j) Temperature of decomposition (°C):	Not specified
	k) pH (23 °C)	11,0 - 13,5 (when mixed with water)
	I) Kinematic viscosity:	Not specified
	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
	o) Steam pressure (20 °C):	Not specified
	p) Density and/or relative density (20 °C):	approximately 1,7 - 1,9 g.cm ⁻³
	q) Relative viscosity of steam (at °C):	Not specified
	r) Particles characteristics:	Not specified
.2	Other information:	
.2.1	Information about class of physical hazard:	is not relevant
.2.2	Other safety characteristics	
	Evaporation rate:	Not specified
	Dynamic viscosity:	Not specified
	Explosive properties:	Not specified
	Oxidizing properties:	Not specified
0.1 0.2 0.3	limited duration of action Possibility of hazardous reactions: unknown	
0.1 0.2	Product is stable under recommended storage and handling conditi 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	handling conditions.
0.1 0.2 0.3 0.4 0.5 0.6	Product is stable under recommended storage and handling conditi 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 Hazardous Decomposition Products: Thermal decomposition: the m	I handling conditions. Ind handling conditions. The product contains a reducing agent with a
0.1 0.2 0.3 0.4 0.5 0.6	Product is stable under recommended storage and handling conditi 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 Hazardous Decomposition Products: Thermal decomposition: the n the dust after dispersing it into the atmosphere.	I handling conditions. Ind handling conditions. The product contains a reducing agent with a
0.1 0.2 0.3 0.4 0.5 0.6	Product is stable under recommended storage and handling conditi 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 Hazardous Decomposition Products: Thermal decomposition: the n the dust after dispersing it into the atmosphere. Section 11: Toxicological information	I handling conditions. Ind handling conditions. The product contains a reducing agent with a nixture itself is a product of thermal decomposition, it is dangerous to inha
0.1 0.2 0.3 0.4 0.5 0.6	Product is stable under recommended storage and handling conditi 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 n 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:	I handling conditions. Ind 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
0.1 0.2 0.3 0.4 0.5 0.6	 Product is stable under recommended storage and handling condition. 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 nuther dust after dispersing it into the atmosphere. Section 11: Toxicological information. Information about hazard classes acording to (ES) č. 1272/2008. a) acute toxicity: LD₅₀, oral, rat (mg.kg⁻¹): 	I handling conditions. Ind 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 the classification cirteria are not met based on avilable information
0.1 0.2 0.3 0.4 0.5 0.6	 Product is stable under recommended storage and handling condition. 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 net 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: LD₅₀, oral, rat (mg.kg⁻¹): LD₅₀, dermal, rat or rabbit (mg.kg⁻¹): 	I handling conditions. Ind 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 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
0.1 0.2 0.3 0.4 0.5 0.6	 Product is stable under recommended storage and handling condition 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 method 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: LD₅₀, oral, rat (mg.kg⁻¹): LD₅₀, dermal, rat or rabbit (mg.kg⁻¹): LC₅₀, by inhalation, rat, for aerosols or particles (mg.kg⁻¹): 	I handling conditions. Ind 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 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
0.1 0.2 0.3 0.4 0.5 0.6	Product is stable under recommended storage and handling conditi Reactivity: Product is not reactive under recommended storage and Chemical stability: Product is stable under recommended storage at 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 net 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, human, for quartz-sand dust (mg.kg ⁻¹):	I handling conditions. Ind 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 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 0,3 (for intermittent exposure for 10 years)
0.1 0.2 0.3 0.4 0.5 0.6	Product is stable under recommended storage and handling condition 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 mathematical state of 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): b) corrosivity/skin irritation:	I handling conditions. Ind handling conditions. The product contains a reducing agent with a nixture 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 skin irritation.
0.1 0.2 0.3 0.4 0.5 0.6	Product is stable under recommended storage and handling conditi 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 n 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, human, for quartz-sand dust (mg.kg ⁻¹): b) corrosivity/skin irritation: c) serious eye damage / eyes irritation:	I handling conditions. Ind 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 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 skin irritation. Causes serious eye damage.
0.1 0.2 0.3 0.4 0.5 0.6	Product is stable under recommended storage and handling conditi 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 n 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): - LC ₅₀ , by inhalation, rat, for aerosols or particles (mg.kg ⁻¹): - LC ₅₀ , by inhalation, human, for quartz-sand dust (mg.kg ⁻¹): b) corrosivity/skin irritation: c) serious eye damage / eyes irritation: d) sensitivity of airways / sensitivity of skin:	I handling conditions. Ind 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 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 skin irritation. Causes serious eye damage. May cause an allergic skin reaction.
0.1 0.2 0.3 0.4 0.5 0.6	 Product is stable under recommended storage and handling condition 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 methe dust after dispersing it into the atmosphere. Section 11: Toxicological information Information about hazard classes acording to (ES) č. 1272/2008 a) acute toxicity: LD₅₀, oral, rat (mg.kg⁻¹): LC₅₀, by inhalation, rat, for aerosols or particles (mg.kg⁻¹): LC₅₀, by inhalation, human, 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: 	I handling conditions. The product contains a reducing agent with a number of the product contains a reducing agent with a nixture 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 skin irritation. 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 0,3 (for intermittent exposure for 10 years) (for intermittent) (for the classification) (for the classin) (for the classificatio
).1).2).3).4).5).6	 Product is stable under recommended storage and handling condition. 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 net 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: LD₅₀, oral, rat (mg.kg⁻¹): LD₅₀, dermal, rat or rabbit (mg.kg⁻¹): LC₅₀, by inhalation, rat, for aerosols or particles (mg.kg⁻¹): b) corrosivity/skin irritation: c) serious eye damage / eyes irritation: d) sensitivity of airways / sensitivity of skin: e) germ cells mutagenicity: 	I handling conditions. Ind handling conditions. The product contains a reducing agent with a nixture 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 skin irritation. 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
).1).2).3).4).5).6	 Product is stable under recommended storage and handling condition. 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 net 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: LD₅₀, oral, rat (mg.kg⁻¹): LD₅₀, dermal, rat or rabbit (mg.kg⁻¹): LC₅₀, by inhalation, rat, for aerosols or particles (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: 	I handling conditions. The product contains a reducing agent with a number of the product contains a reducing agent with a nixture itself is a product of thermal decomposition, it is dangerous to inhere 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 skin irritation. 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 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 ar
0.1 0.2 0.3 0.4 0.5 0.6	Product is stable under recommended storage and handling conditi 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 n 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): - LC ₅₀ , by inhalation, rat, for aerosols or particles (mg.kg ⁻¹): - LC ₅₀ , by inhalation, human, 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 handling conditions. Ind handling conditions. The product contains a reducing agent with a nixture 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 0,3 (for intermittent exposure for 10 years) Causes skin irritation. 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 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
).1).2).3).4).5).6	Product is stable under recommended storage and handling conditi 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 methe 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, human, 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:	I handling conditions. The product contains a reducing agent with a number of the product contains a reducing agent with a nixture itself is a product of thermal decomposition, it is dangerous to inhere 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 skin irritation. 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 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 ar
).1).2).3).4).5).6	Product is stable under recommended storage and handling conditi 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 northe 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, human, 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 specific organs - single exposure: i) toxicity for specific organs - multiple exposures: j) hazards while inhaled:	I handling conditions. The product contains a reducing agent with a number of the product contains a reducing agent with a nixture itself is a product of thermal decomposition, it is dangerous to inhe 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 skin irritation. Causes serious eye damage. May cause an allergic skin reaction. the classification cirteria are not met based on avilable informatior the classification cirteria are not met based on avilable information the classification cirteria are not met based on avilable informatior 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 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
).1).2).3).4).5).6	Product is stable under recommended storage and handling conditi 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 normal decomposition: the normation 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, human, 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 specific organs - single exposure: i) toxicity for specific organs - multiple exposures: j) hazards while inhaled: Human experience:	 I handling conditions. The product contains a reducing agent with a Ind handling conditions. The product contains a reducing agent with a Inixture itself is a product of thermal decomposition, it is dangerous to inhe I the classification cirteria are not met based on avilable information I the classification cirteria are not met based on avilable information I the classification cirteria are not met based on avilable information I the classification cirteria are not met based on avilable information I classification cirteria are not met based on avilable information I classification cirteria are not met based on avilable information I (for intermittent exposure for 10 years) C auses skin irritation. C auses serious eye damage. May cause an allergic skin reaction. I the classification cirteria are not met based on avilable information I the classification cirteria are not met based on avilable information I the classification cirteria are not met based on avilable information I the classification cirteria are not met based on avilable information I the classification cirteria are not met based on avilable information I the classification cirteria are not met based on avilable information I the form of dust even after mixing with water seriously damages eyes, irritates the respiratory system and skin. For very sensitive people there is a risk of sensitization by prolonged skin contact.
0.1 0.2 0.3 0.4 0.5 0.6 1. 1.1	Product is stable under recommended storage and handling conditi Reactivity: Product is not reactive under recommended storage and Chemical stability: Product is stable under recommended storage and imited 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 normal 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, human, 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 - single exposures: j) hazards while inhaled: Human experience: Tests on animals:	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 0,3 (for intermittent exposure for 10 years) Causes skin irritation. 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 May cause respiratory irritation. 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
0.1 0.2 0.3 0.4 0.5 0.6 1. 1.1	Product is stable under recommended storage and handling conditi 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 methe 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, rat, for aerosols or particles (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 - single exposures: j) hazards while inhaled: Human experience: Tests on animals: Information for each hazard class or breakdown:	 I handling conditions. The product contains a reducing agent with a Ind handling conditions. The product contains a reducing agent with a Inixture itself is a product of thermal decomposition, it is dangerous to inhat I the classification cirteria are not met based on avilable information I the classification cirteria are not met based on avilable information I the classification cirteria are not met based on avilable information I the classification cirteria are not met based on avilable information I the classification cirteria are not met based on avilable information I the classification cirteria are not met based on avilable information I classification cirteria are not met based on avilable information I classes serious eye damage. May cause an allergic skin reaction. I the classification cirteria are not met based on avilable information I the classification cirteria are not met based on avilable information I the classification cirteria are not met based on avilable information I the classification cirteria are not met based on avilable information I the classification cirteria are not met based on avilable information I the classification cirteria are not met based on avilable information I the form of dust even after mixing with water seriously damages I the form of dust even after mixing with water seriously damages I the form of dust even after mixing with water seriously damages I the form of dust even after mixing with water seriously damages I the form of dust even after mixing with water seriously damages I the form of dust even after mixing with water seriously damages I the form of dust even after mixing with water seriously damages I the form of dust even after mixing with water seriously damages
0.1 0.2 0.3 0.4 0.5	Product is stable under recommended storage and handling conditi 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 methe 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): - LC ₅₀ , by inhalation, rat, for aerosols or particles (mg.kg ⁻¹): - LC ₅₀ , by inhalation, rat, for aerosols or particles (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 - single exposures: j) hazards while inhaled: Human experience: Tests on animals: Information for each hazard class or breakdown:	 I handling conditions. The product contains a reducing agent with a ind handling conditions. The product contains a reducing agent with a nixture itself is a product of thermal decomposition, it is dangerous to inhere 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. In the form of dust even after mixing with water seriously damages eyes, irritates the respiratory system and skin. For very sensitive people there is a risk of sensitization by prolonged skin contact. Not performed

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 exposure run	not relevant	
11.1.4	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	
	Lack of specific data	not relevant	
	Mixtures	see part 8	
	Mixtures information compared to substance information		
	1) Substances in the mixture can react with each other inside of a body and can cause different levels of absorption, metabolism and		
	 2) It is necessary to consider, if concentration of each substance is sufficient to contribute mixture's effects on health. For each substance 		
	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	see part 8	
	are unavilable, no assumptions will be listed and instead effects on healtf of each substance will be listed.		
	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	
40	Castion 40. Factorization		
12.	Section 12: Ecological information		
12.1	Toxicity		
	Acute toxicity for water organisms:	Net est	
	- 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:		
13.1	 a) Appropriate methods of substance, mixture and contaminated packaging disposal: Dispose of unused product residue through authorized personnel. Dispose of used / contaminated packaging through authorized personnel. b) Physical / chemical properties that can affect ways of waste handling: unknown 		
	c) Avoid disposal through sewer: It is necessary to prevent leakage of both components and hardened mixture into drains.		
	d) Special precautions for the recommended waste management: Avoid		
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	
14.2	Proper name of United Nations for the shipment		
	ADR/RID/ADN:	Not specified	

	IMDG:		Not specified
	ICAO TI:		Not specified
14.3		hazard class(es):	
	ADR/RID		Not specified
	IMDG:		Not specified
	ICAO TI:		Not specified
.4	Packing g	group:	
	ADR/RID		Not specified
	IMDG:		Not specified
	ICAO TI:		Not specified
5	Environm	ental hazards:	Not specified
6	Special p	recautions for user:	See Section 8
	Special p	rovisions (ADR):	Not specified
.7	Naval ma	ss-transport according to instrumenst IMO:	Not applicable
	Notes:		None
	Additiona	l data:	None
	Section	15: Regulatory information	
1		ealth and environmental regulations/legislation specif	ic for the substance or mixture.
	Regulatio	n of the European Parliament and Council Regulation	n (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation a
	Restrictio	n of Chemicals establishing European Chemicals Ag	ency, as amended
	Regulatio	n of the European Parliament and Council Regulation	n (EC) No 1272/2008 (CLP) as amended
	Commisio	on directive (EU) No. 878/2020	
			ned 2011). Containing the list of workplace exposure limits for use with the
· •		f Substances Hazardous to Health Regulations (as an	-
.2	Assessm	ent of chemical safety of mixture:	Not performed
		well as recommendation related to ecological matter	rent knowledge of EU legislation. It is a recommendation in terms of health a s that are essential to safe usage of the product.
	safety as a) New ee	well as recommendation related to ecological matter	s that are essential to safe usage of the product.
	safety as a) New ee	well as recommendation related to ecological matter	s that are essential to safe usage of the product. safety data sheet:
	safety as a) New ea b) key or	well as recommendation related to ecological matter dition. legend for abbreviations and accronyms used in the s	s that are essential to safe usage of the product. safety data sheet: ation relative to a control sample.
	safety as a) New ea b) key or LD ₅₀	well as recommendation related to ecological matter dition. legend for abbreviations and accronyms used in the The lethal dose for 50 % mortality of the test popul	s that are essential to safe usage of the product. safety data sheet: ation relative to a control sample. population relative to a control sample.
	safety as a) New ea b) key or LD ₅₀ LC ₅₀	well as recommendation related to ecological matter dition. legend for abbreviations and accronyms used in the The lethal dose for 50 % mortality of the test popul Lethal concentration for 50 % mortality of the test p	s that are essential to safe usage of the product. safety data sheet: ation relative to a control sample. population relative to a control sample. st population relative to a control sample.
	safety as a) New ea b) key or LD_{50} LC_{50} EC_{50}	well as recommendation related to ecological matter dition. legend for abbreviations and accronyms used in the The lethal dose for 50 % mortality of the test popul Lethal concentration for 50 % mortality of the test p Effective concentration for 50 % mortality of the test Effective concentration for 10 % mortality of the test	s that are essential to safe usage of the product. safety data sheet: ation relative to a control sample. population relative to a control sample. st population relative to a control sample.
	safety as a) New each b) key or LD_{50} LC_{50} EC_{50} EC_{10}	well as recommendation related to ecological matter dition. legend for abbreviations and accronyms used in the The lethal dose for 50 % mortality of the test popul Lethal concentration for 50 % mortality of the test p Effective concentration for 50 % mortality of the test Effective concentration for 10 % mortality of the test	s that are essential to safe usage of the product. safety data sheet: ation relative to a control sample. population relative to a control sample. st population relative to a control sample. st population relative to a control sample. st population relative to a control sample. with rate of 50% of the test population relative to a control sample.
	safety as a) New each b) key or LD_{50} LC_{50} EC_{10} IC_{50}	well as recommendation related to ecological matter dition. legend for abbreviations and accronyms used in the s The lethal dose for 50 % mortality of the test popul Lethal concentration for 50 % mortality of the test p Effective concentration for 50 % mortality of the test Effective concentration for 10 % mortality of the test Inhibitory concentration to reduce the growth or gro	s that are essential to safe usage of the product. safety data sheet: ation relative to a control sample. oopulation relative to a control sample. st population relative to a control sample. st population relative to a control sample. bowth rate of 50% of the test population relative to a control sample. 50% mortality
	safety as a) New each b) key or LD_{50} LC_{50} EC_{50} EC_{10} IC_{50} LL_{50}	well as recommendation related to ecological matter dition. legend for abbreviations and accronyms used in the s The lethal dose for 50 % mortality of the test popul Lethal concentration for 50 % mortality of the test p Effective concentration for 50 % mortality of the test Effective concentration for 10 % mortality of the test Inhibitory concentration to reduce the growth or gro Lethal loading doses of test substance resulting in	s that are essential to safe usage of the product. safety data sheet: ation relative to a control sample. oopulation relative to a control sample. st population relative to a control sample. st population relative to a control sample. bowth rate of 50% of the test population relative to a control sample. 50% mortality
	safety as a) New each b) key or LD_{50} EC_{50} EC_{10} IC_{50} LL_{50} LL_{50} EL_{50}	well as recommendation related to ecological matter dition. legend for abbreviations and accronyms used in the s The lethal dose for 50 % mortality of the test popul Lethal concentration for 50 % mortality of the test p Effective concentration for 50 % mortality of the test Effective concentration for 10 % mortality of the test Inhibitory concentration to reduce the growth or gro Lethal loading doses of test substance resulting in Effective loading doses of test substance resulting	s that are essential to safe usage of the product. safety data sheet: ation relative to a control sample. bopulation relative to a control sample. st population relative to a control sample. st population relative to a control sample. bowth rate of 50% of the test population relative to a control sample. 50% mortality in 50% mortality
	safety as a) New each b) key or LD_{50} EC_{50} EC_{10} IC_{50} LL_{50} EL_{50} PBT	well as recommendation related to ecological matter dition. legend for abbreviations and accronyms used in the s The lethal dose for 50 % mortality of the test popul Lethal concentration for 50 % mortality of the test p Effective concentration for 50 % mortality of the test Effective concentration for 10 % mortality of the test Inhibitory concentration to reduce the growth or gro Lethal loading doses of test substance resulting in Effective loading doses of test substance resulting Persistent, bioaccumulative and toxic substances.	s that are essential to safe usage of the product. safety data sheet: ation relative to a control sample. bopulation relative to a control sample. st population relative to a control sample. st population relative to a control sample. bowth rate of 50% of the test population relative to a control sample. 50% mortality in 50% mortality es.
	safety as a) New each b) key or LD_{50} EC_{50} EC_{10} IC_{50} LL_{50} EL_{50} PBT vPvB	well as recommendation related to ecological matter dition. legend for abbreviations and accronyms used in the The lethal dose for 50 % mortality of the test popul Lethal concentration for 50 % mortality of the test p Effective concentration for 50 % mortality of the test Effective concentration for 10 % mortality of the test Inhibitory concentration to reduce the growth or gro Lethal loading doses of test substance resulting in Effective loading doses of test substance resulting Persistent, bioaccumulative and toxic substances. Very persistent and very bioaccumulative substance	s that are essential to safe usage of the product. safety data sheet: ation relative to a control sample. bopulation relative to a control sample. st population relative to a control sample. st population relative to a control sample. bowth rate of 50% of the test population relative to a control sample. 50% mortality in 50% mortality es. the substance without adverse effects
	safety as a) New each b) key or LD_{50} EC_{50} EC_{10} IC_{50} LL_{50} EL_{50} PBT vPvB DNEL	well as recommendation related to ecological matter dition. legend for abbreviations and accronyms used in the s The lethal dose for 50 % mortality of the test popul Lethal concentration for 50 % mortality of the test p Effective concentration for 50 % mortality of the test Effective concentration for 10 % mortality of the test Inhibitory concentration to reduce the growth or gro Lethal loading doses of test substance resulting in Effective loading doses of test substance resulting Persistent, bioaccumulative and toxic substances. Very persistent and very bioaccumulative substance Derived No Effect Level - derived concentration of	s that are essential to safe usage of the product. safety data sheet: ation relative to a control sample. bopulation relative to a control sample. st population relative to a control sample. st population relative to a control sample. bowth rate of 50% of the test population relative to a control sample. 50% mortality in 50% mortality es. the substance without adverse effects level at which the adverse effects
	safety as a) New each b) key or LD_{50} EC_{50} EC_{10} IC_{50} LL_{50} EL_{50} PBT vPvB DNEL DMEL	well as recommendation related to ecological matter dition. legend for abbreviations and accronyms used in the s The lethal dose for 50 % mortality of the test popul Lethal concentration for 50 % mortality of the test p Effective concentration for 50 % mortality of the test Inhibitory concentration for 10 % mortality of the test Inhibitory concentration to reduce the growth or gro Lethal loading doses of test substance resulting in Effective loading doses of test substance resulting Persistent, bioaccumulative and toxic substances. Very persistent and very bioaccumulative substance Derived No Effect Level - derived concentration of Derived Minimum Effect Level - derived minimum No Observed Adverse Effect Level - no negative effect	s that are essential to safe usage of the product. safety data sheet: ation relative to a control sample. bopulation relative to a control sample. st population relative to a control sample. st population relative to a control sample. bowth rate of 50% of the test population relative to a control sample. 50% mortality in 50% mortality es. the substance without adverse effects level at which the adverse effects
	safety as a) New ea b) key or LD ₅₀ EC ₅₀ EC ₁₀ IC ₅₀ EL ₅₀ PBT vPvB DNEL DMEL NOAEL PNEC NOELR	well as recommendation related to ecological matter dition. legend for abbreviations and accronyms used in the s The lethal dose for 50 % mortality of the test popul Lethal concentration for 50 % mortality of the test p Effective concentration for 50 % mortality of the test Inhibitory concentration for 10 % mortality of the test Inhibitory concentration to reduce the growth or gro Lethal loading doses of test substance resulting in Effective loading doses of test substance resulting Persistent, bioaccumulative and toxic substances. Very persistent and very bioaccumulative substance Derived No Effect Level - derived concentration of Derived Minimum Effect Level - derived minimum No Observed Adverse Effect Level - no negative effect	s that are essential to safe usage of the product. safety data sheet: ation relative to a control sample. bopulation relative to a control sample. st population relative to a control sample. st population relative to a control sample. bowth rate of 50% of the test population relative to a control sample. 50% mortality in 50% mortality es. the substance without adverse effects level at which the adverse effects fect was observed if the concentration of the substance without adverse effects
	a) New each b) key or LD ₅₀ EC ₅₀ EC ₁₀ IC ₅₀ EL ₅₀ PBT vPvB DNEL DMEL NOAEL PNEC NOELR NOEC	well as recommendation related to ecological matter dition. legend for abbreviations and accronyms used in the s The lethal dose for 50 % mortality of the test popul Lethal concentration for 50 % mortality of the test p Effective concentration for 50 % mortality of the test Effective concentration for 10 % mortality of the test Inhibitory concentration to reduce the growth or gro Lethal loading doses of test substance resulting in Effective loading doses of test substance resulting Persistent, bioaccumulative and toxic substances. Very persistent and very bioaccumulative substance Derived No Effect Level - derived concentration of Derived Minimum Effect Level - derived minimum No Observed Adverse Effect Level - no negative effect Predicted No Effect Concentration - an estimate of	s that are essential to safe usage of the product. safety data sheet: ation relative to a control sample. bopulation relative to a control sample. st population relative to a control sample. st population relative to a control sample. bowth rate of 50% of the test population relative to a control sample. 50% mortality in 50% mortality es. the substance without adverse effects level at which the adverse effects fect was observed if the concentration of the substance without adverse effects thout observed effect
	a) New each b) key or LD ₅₀ EC ₅₀ EC ₁₀ IC ₅₀ EL ₅₀ PBT vPvB DNEL DMEL DMEL NOAEL PNEC NOELR NOEC NOEL	well as recommendation related to ecological matter dition. legend for abbreviations and accronyms used in the set The lethal dose for 50 % mortality of the test popul Lethal concentration for 50 % mortality of the test pre- Effective concentration for 50 % mortality of the test Effective concentration for 10 % mortality of the test Inhibitory concentration to reduce the growth or group Lethal loading doses of test substance resulting in Effective loading doses of test substance resulting Persistent, bioaccumulative and toxic substances. Very persistent and very bioaccumulative substance Derived No Effect Level - derived concentration of Derived Minimum Effect Level - derived minimum No Observed Adverse Effect Level - no negative effect No Observed Effect Concentration - an estimate of No Observed Effect Level - level without observed effect Level - level without observed for the test No Observed Effect Level - level without observed for the test No Observed Effect Level - level without observed for the test No Observed Effect Level - level without observed for the test No Observed Effect Level - level without observed for the test No Observed Effect Level - level without observed for the test No Observed Effect Level - level without observed for the test No Observed Effect Level - level without observed for the test No Observed Effect Level - level without observed for the test of the test persistent of the test of the test of the test for the test of the test of the test of the test persistent of test persistent of the test persistent of te	s that are essential to safe usage of the product. safety data sheet: ation relative to a control sample. bopulation relative to a control sample. st population relative to a control sample. st population relative to a control sample. bowth rate of 50% of the test population relative to a control sample. 50% mortality in 50% mortality es. the substance without adverse effects level at which the adverse effects fect was observed if the concentration of the substance without adverse effects thout observed effect without observed effect effect
	a) New each b) key or LD ₅₀ EC ₅₀ EC ₁₀ IC ₅₀ LL ₅₀ PBT VPVB DNEL DMEL NOAEL PNEC NOELR NOEC NOEL LOEC	well as recommendation related to ecological matter dition. legend for abbreviations and accronyms used in the s The lethal dose for 50 % mortality of the test popul Lethal concentration for 50 % mortality of the test p Effective concentration for 50 % mortality of the test Inhibitory concentration for 10 % mortality of the test Inhibitory concentration to reduce the growth or gro Lethal loading doses of test substance resulting in Effective loading doses of test substance resulting Persistent, bioaccumulative and toxic substances. Very persistent and very bioaccumulative substance Derived No Effect Level - derived concentration of Derived Minimum Effect Level - derived minimum No Observed Adverse Effect Level - no negative eff Predicted No Effect Concentration - an estimate of No Observed Effect Loading Rate - dosage rate wi No Observed Effect Level - level without observed Lowest Observed Effect Concentration - lowest cor	s that are essential to safe usage of the product. safety data sheet: ation relative to a control sample. bopulation relative to a control sample. st population relative to a control sample. st population relative to a control sample. bowth rate of 50% of the test population relative to a control sample. 50% mortality in 50% mortality es. the substance without adverse effects level at which the adverse effects fect was observed if the concentration of the substance without adverse effects thout observed effect without observed effect effect moentrations with observable effects
	a) New each b) key or LD ₅₀ EC ₅₀ EC ₁₀ IC ₅₀ EL ₅₀ PBT vPvB DNEL DMEL NOAEL PNEC NOELR NOEC NOEL LOEC ADR	well as recommendation related to ecological matter dition. legend for abbreviations and accronyms used in the s The lethal dose for 50 % mortality of the test popul Lethal concentration for 50 % mortality of the test p Effective concentration for 50 % mortality of the test Effective concentration for 10 % mortality of the test Inhibitory concentration to reduce the growth or gro Lethal loading doses of test substance resulting in Effective loading doses of test substance resulting Persistent, bioaccumulative and toxic substances. Very persistent and very bioaccumulative substance Derived No Effect Level - derived concentration of Derived Minimum Effect Level - derived minimum No Observed Adverse Effect Level - no negative eff Predicted No Effect Concentration - an estimate of No Observed Effect Loading Rate - dosage rate wi No Observed Effect Level - level without observed of Lowest Observed Effect Concentration - lowest cor European Agreement concerning the international of	s that are essential to safe usage of the product. safety data sheet: ation relative to a control sample. bopulation relative to a control sample. st population relative to a control sample. st population relative to a control sample. bowth rate of 50% of the test population relative to a control sample. 50% mortality in 50% mortality es. the substance without adverse effects level at which the adverse effects level at which the adverse effects fect was observed f the concentration of the substance without adverse effects thout observed effect without observed effect effect centrations with observable effects carriage of dangerous goods by road.
	safety as a) New ea b) key or LD ₅₀ EC ₅₀ EC ₁₀ IC ₅₀ EL ₅₀ PBT vPvB DNEL DMEL NOAEL PNEC NOELR NOEL LOEC ADR RID	well as recommendation related to ecological matter dition. legend for abbreviations and accronyms used in the so- The lethal dose for 50 % mortality of the test popul Lethal concentration for 50 % mortality of the test propul Effective concentration for 50 % mortality of the test Effective concentration for 10 % mortality of the test Inhibitory concentration to reduce the growth or group Lethal loading doses of test substance resulting in Effective loading doses of test substance resulting Persistent, bioaccumulative and toxic substances. Very persistent and very bioaccumulative substance Derived No Effect Level - derived concentration of Derived Minimum Effect Level - derived minimum No Observed Adverse Effect Level - no negative eff Predicted No Effect Concentration - an estimate of No Observed Effect Concentration - an estimate of No Observed Effect Level - level without observed Lowest Observed Effect Level - level without observed Concentration - lowest cor European Agreement concerning the international carriage of Regulations concerning the international carriage of	s that are essential to safe usage of the product. safety data sheet: ation relative to a control sample. bopulation relative to a control sample. st population relative to a control sample. st population relative to a control sample. bowth rate of 50% of the test population relative to a control sample. 50% mortality in 50% mortality es. the substance without adverse effects level at which the adverse effects level at which the adverse effects fect was observed f the concentration of the substance without adverse effects thout observed effect without observed effect effect centrations with observable effects carriage of dangerous goods by road.
	safety as a) New ea b) key or LD ₅₀ EC ₅₀ EC ₁₀ IC ₅₀ EL ₅₀ PBT vPvB DNEL DMEL DMEL NOAEL PNEC NOELR NOEL LOEC ADR RID IMDG	well as recommendation related to ecological matter dition. legend for abbreviations and accronyms used in the so- The lethal dose for 50 % mortality of the test popul Lethal concentration for 50 % mortality of the test provention for 50 % mortality of the test Effective concentration for 10 % mortality of the test Inhibitory concentration to reduce the growth or group Lethal loading doses of test substance resulting in Effective loading doses of test substance resulting Persistent, bioaccumulative and toxic substances. Very persistent and very bioaccumulative substance Derived No Effect Level - derived concentration of Derived Minimum Effect Level - derived minimum No Observed Adverse Effect Level - no negative effected No Effect Concentration - an estimate of No Observed Effect Concentration - an estimate of No Observed Effect Level - level without observed Lowest Observed Effect Concentration - concentration Regulations concerning the international carriage of International maritime code of dangerous goods.	s that are essential to safe usage of the product. safety data sheet: ation relative to a control sample. bopulation relative to a control sample. st population relative to a control sample. st population relative to a control sample. bowth rate of 50% of the test population relative to a control sample. 50% mortality in 50% mortality es. the substance without adverse effects level at which the adverse effects level at which the adverse effects fect was observed f the concentration of the substance without adverse effects thout observed effect without observed effect effect centrations with observable effects carriage of dangerous goods by road.
	a) New each b) key or LD ₅₀ EC ₅₀ EC ₁₀ IC ₅₀ EL ₅₀ PBT vPvB DNEL DMEL DMEL DMEL NOAEL PNEC NOELR NOEC NOEL LOEC ADR RID IMDG ICAO	well as recommendation related to ecological matter dition. legend for abbreviations and accronyms used in the set The lethal dose for 50 % mortality of the test popul Lethal concentration for 50 % mortality of the test p Effective concentration for 50 % mortality of the test Effective concentration for 10 % mortality of the test Inhibitory concentration to reduce the growth or gro Lethal loading doses of test substance resulting in Effective loading doses of test substance resulting Persistent, bioaccumulative and toxic substances. Very persistent and very bioaccumulative substance Derived No Effect Level - derived concentration of Derived Minimum Effect Level - derived minimum No Observed Adverse Effect Level - no negative eff Predicted No Effect Concentration - an estimate of No Observed Effect Concentration - concentration No Observed Effect Level - level without observed of Lowest Observed Effect Concentration - lowest cor European Agreement concerning the international carriage of International maritime code of dangerous goods. The International Civil Aviation Organization.	s that are essential to safe usage of the product. safety data sheet: ation relative to a control sample. bopulation relative to a control sample. st population relative to a control sample. st population relative to a control sample. bowth rate of 50% of the test population relative to a control sample. 50% mortality in 50% mortality es. the substance without adverse effects level at which the adverse effects level at which the adverse effects fect was observed f the concentration of the substance without adverse effects thout observed effect without observed effect effect centrations with observable effects carriage of dangerous goods by road.
	a) New each b) key or LD ₅₀ EC ₅₀ EC ₅₀ EC ₁₀ IC ₅₀ LL ₅₀ EL ₅₀ PBT vPvB DNEL DMEL DMEL NOAEL PNEC NOELR NOELR NOEC NOELR NOELC ADR RID IMDG ICAO IATA	well as recommendation related to ecological matter dition. legend for abbreviations and accronyms used in the set The lethal dose for 50 % mortality of the test popul Lethal concentration for 50 % mortality of the test per Effective concentration for 50 % mortality of the test Effective concentration for 10 % mortality of the test Inhibitory concentration to reduce the growth or gro Lethal loading doses of test substance resulting in Effective loading doses of test substance resulting Persistent, bioaccumulative and toxic substances. Very persistent and very bioaccumulative substance Derived No Effect Level - derived concentration of Derived Minimum Effect Level - derived minimum No Observed Adverse Effect Level - no negative effected No Effect Concentration - an estimate of No Observed Effect Concentration - an estimate of No Observed Effect Level - level without observed of Lowest Observed Effect Concentration - concentration Regulations concerning the international carriage of International maritime code of dangerous goods. The International Civil Aviation Organization. International Air Transport Association.	s that are essential to safe usage of the product. safety data sheet: ation relative to a control sample. bopulation relative to a control sample. st population relative to a control sample. st population relative to a control sample. bowth rate of 50% of the test population relative to a control sample. 50% mortality in 50% mortality es. the substance without adverse effects level at which the adverse effects level at which the adverse effects fect was observed f the concentration of the substance without adverse effects thout observed effect without observed effect effect iccentrations with observable effects carriage of dangerous goods by road. of dangerous goods by rail.
	a) New each b) key or LD ₅₀ EC ₅₀ EC ₁₀ IC ₅₀ EL ₅₀ PBT VPVB DNEL DMEL DMEL DMEL NOAEL PNEC NOELR NOEC NOEL LOEC ADR RID IMDG ICAO	well as recommendation related to ecological matter dition. legend for abbreviations and accronyms used in the set The lethal dose for 50 % mortality of the test popul Lethal concentration for 50 % mortality of the test p Effective concentration for 50 % mortality of the test Effective concentration for 10 % mortality of the test Inhibitory concentration to reduce the growth or gro Lethal loading doses of test substance resulting in Effective loading doses of test substance resulting Persistent, bioaccumulative and toxic substances. Very persistent and very bioaccumulative substance Derived No Effect Level - derived concentration of Derived Minimum Effect Level - derived minimum No Observed Adverse Effect Level - no negative eff Predicted No Effect Concentration - an estimate of No Observed Effect Concentration - concentration No Observed Effect Level - level without observed of Lowest Observed Effect Concentration - lowest cor European Agreement concerning the international carriage of International maritime code of dangerous goods. The International Civil Aviation Organization.	s that are essential to safe usage of the product. safety data sheet: ation relative to a control sample. bopulation relative to a control sample. st population relative to a control sample. st population relative to a control sample. bowth rate of 50% of the test population relative to a control sample. 50% mortality in 50% mortality es. the substance without adverse effects level at which the adverse effects level at which the adverse effects fect was observed f the concentration of the substance without adverse effects thout observed effect without observed effect effect iccentrations with observable effects carriage of dangerous goods by road. of dangerous goods by rail.
	safety as a) New ea b) key or LD ₅₀ EC ₅₀ EC ₁₀ IC ₅₀ EL ₅₀ PBT vPvB DNEL DMEL DMEL NOAEL PNEC NOELR NOEL LOEC ADR RID IMDG ICAO IATA GHS	well as recommendation related to ecological matter dition. legend for abbreviations and accronyms used in the set The lethal dose for 50 % mortality of the test popul Lethal concentration for 50 % mortality of the test per Effective concentration for 50 % mortality of the test Effective concentration for 10 % mortality of the test Inhibitory concentration to reduce the growth or gro Lethal loading doses of test substance resulting in Effective loading doses of test substance resulting Persistent, bioaccumulative and toxic substances. Very persistent and very bioaccumulative substance Derived No Effect Level - derived concentration of Derived Minimum Effect Level - derived minimum No Observed Adverse Effect Level - no negative effected No Effect Concentration - an estimate of No Observed Effect Concentration - an estimate of No Observed Effect Level - level without observed of Lowest Observed Effect Concentration - concentration Regulations concerning the international carriage of International maritime code of dangerous goods. The International Civil Aviation Organization. International Air Transport Association.	s that are essential to safe usage of the product.

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.

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.