SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifiers

Ceresit CT 721 VISAGE

1.2. Identified uses of the substance or mixture and uses advised against

Intended use:

Paints and coatings

ua-productsafety.bg@henkel.com

1.4. Emergency telephone number

112 Emergency call number

02/9154 213 Accident & Emergency, N.I. Pirogov Hospital

02/9154 346; 02/9154 233 Toxicology Clinic, N.I. Pirogov Hospital

In the event of acute poisoning, use the emergency hotline of the central toxicology information office (tel.: Vienna/406 43 43)

Emergency telephone number: 150

SECTION 2: Description of hazards

2.1. Classification of the substance or mixture

Classification (CLP):

that a substance or mixture is not hazardous according to Regulation (EC) No 1272/2008 (CLP).

2.2. Label elements

Label elements (CLP):

that a substance or mixture is not hazardous according to Regulation (EC) No 1272/2008 (CLP).

Further information	Contains preservative(s): Isothiazolinone mixture 3:1 (CIT/MIT).
	Contains 1,2-Benzisothiazol-3(2H)-one. May produce an allergic reaction.
Precautionary statement:	P102 Keep out of reach of children.
	P101 If medical advice is needed, have product container or label at hand.
	P262 Do not get in eyes, on skin, or on clothing.

2.3. Other hazards

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General chemical description:

coatings

Base substances of preparation:

Polyacrylate dispersion

Declaration of the ingredients in accordance with CLP (EC) No 1272/2008:

Hazardous components CAS-No.	EC Number REACH Reg. No.	Content	Classification
Bismuth vanadium tetraoxide 14059-33-7	237-898-0	1–< 5%	STOT RE 2; Inhalation H373
octyltriethoxysilane 2943-75-1	220-941-2 01-2119972313-39	1–< 5%	Skin Irrit. 2; Dermal H315
Chrome antimony titanium buff rutile 68186-90-3	269-052-1	1–< 5%	
Chromium (III) oxide 1308-38-9	215-160-9 01-2119433951-39	1–< 5%	
Hydrocarbons C10-C13, n-alkanes, isoalkanes, cyclic, < 2% aromatic 1174522-09-8	918-481-9 01-2119457273-39	1–< 5%	Asp. Tox. 1 H304
1,2-Benzisothiazol-3(2H)-one 2634-33-5	220-120-9	0.005–< 0.05% (50 ppm–< 500 ppm)	Aquatic Acute 1 H400 Aquatic Chronic 2 H411 Acute Tox. 4; Oral H302 Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Dam. 1 H318 Acute Tox. 2 H330
Isothiazolinone mixture 3: 1 (CIT/MIT) 55965-84-9		0.0001–< 0.0015 % (1 ppm–< 15 ppm)	Acute Tox. 2 H330 Acute Tox. 3 H301 Acute Tox. 2 H310 Skin Corr. 1B H314 Skin Sens. 1A H317 Aquatic Acute 1 H400 Aquatic Chronic 1 H410 M factor (Acute Aquat Tox): 100, M factor (Chron Aquat Tox): 10

For the full text of the H-statements and other abbreviations, see Section 16, Other information

Substances without classification may have community workplace exposure limits available

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

If adverse health effects develop, seek medical attention.

If inhaled:

Move to fresh air, consult doctor if complaint persists.

In case of contact with skin:

Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing.

In case of contact with eyes:

Rinse immediately with plenty of running water, seek medical advice if necessary.

If swallowed:

Rinse mouth and throat. Drink 1–2 glasses of water. Seek medical attention.

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

No data available

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

See section: Description of first aid measures

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media:

carbon dioxide, foam, extinguishing powder, water spray jet, fine water spray

Extinguishing media which must not be used for safety reasons:

High pressure waterjet

5.2. Special hazards arising from the substance or mixture

In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO_2) can be released.

5.3. Advice for firefighters

Wear self-contained breathing apparatus.

Wear protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective equipment.

Spills create slip hazard.

Avoid contact with skin and eyes.

6.2. Environmental precautions

Do not empty into drains/surface water/ground water.

6.3. Methods and material for containment and cleaning up

Remove with liquid-absorbing material (sand, peat, sawdust).

Dispose of contaminated material as waste according to Section 13.

6.4. Reference to other sections

See advice in Section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes.

Hygiene measures:

Wash hands before and after finishing work.

Do not eat, drink or smoke while working.

7.2. Conditions for safe storage, including any incompatibilities

Store sealed in the original container.

Store in a cool, dry place.

Temperatures between 0°C and +30°C

Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

7.3. Specific end use(s)

Paints and coatings

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for

Bulgaria

Ingredient [Regulated substance]	ppm	mg/m^3	Value type	Short term exposure limit/Remarks	Regulatory list
Bismuth vanadium tetraoxide 14059-33-7 [Vanadium—oxides and inorganic compounds]		0.05	Time Weighted Average (TWA)		BG OEL
titanium dioxide 13463-67-7 [Titanium dioxide, respirable dust]		10	Time Weighted Average (TWA)		BG OEL
Chromium (III) oxide 1308-38-9 [Chromium metal, inorganic chromium (II) compounds, inorganic chromium (III) compounds (insoluble)]		2	Time Weighted Average (TWA)		BG OEL
Chromium (III) oxide 1308-38-9 [CHROMIUM METAL, INORGANIC CHROMIUM (II) COMPOUNDS, ORGANIC CHROMIUM (III) COMPOUNDS (INSOLUBLE)]		2	Time Weighted Average (TWA)	Indicative	ECTLV
Chrome antimony titanium buff rutile 68186-90-3 [Antimony and inorganic compounds (as antimony)]		0.5	Time Weighted Average (TWA)		BG OEL
Chrome antimony titanium buff rutile 68186-90-3 [Titanium—inorganic compounds]		1	Time Weighted Average (TWA)		BG OEL

Chrome antimony titanium buff rutile 68186-90-3 [Chromium metal, inorganic chromium (II) compounds, inorganic chromium (III) compounds (insoluble)]		2	Time Weighted Average (TWA)		BG OEL
Chrome antimony titanium buff rutile 68186-90-3 [CHROMIUM METAL, INORGANIC CHROMIUM (II) COMPOUNDS, ORGANIC CHROMIUM (III) COMPOUNDS (INSOLUBLE)]		2	Time Weighted Average (TWA)	Indicative	ECTLV
iron (3) oxide 1309-37-1 [Iron dust (oxides, agglomerates, slag, steel, cast iron), containing less than 2% free crystalline silica in the respirable fraction]		6	Time Weighted Average (TWA)		BG OEL
iron (3) oxide 1309-37-1 [iron oxides (as iron)]		5	Time Weighted Average (TWA)		BG OEL
Dialuminium cobalt tetraoxide 1333-88-6 [Aluminium (inorganic soluble compounds) (as aluminium)]		2	Time Weighted Average (TWA)		BG OEL
Dialuminium cobalt tetraoxide 1333-88-6 [Cobalt and inorganic compounds (as cobalt)]		0.1	Time Weighted Average (TWA)		BG OEL
Dialuminium cobalt tetraoxide 1333-88-6 [Aluminium (metal dust and oxides), respirable fraction]		1.5	Time Weighted Average (TWA)		BG OEL
Dialuminium cobalt tetraoxide 1333-88-6 [Aluminium (metal dust and oxides)]		10	Time Weighted Average (TWA)		BG OEL

Predicted No-Effect Concentration (PNEC):

Name on the list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	other	
Bismuth vanadium tetraoxide 14059-33-7	Sewage treatment plant		10000 mg/l				
octyltriethoxysilane 2943-75-1	aqua (freshwater)		0.0058 mg/l				

octyltriethoxysilane 2943-75-1	aqua (marine water)		0.00058 mg/l				
octyltriethoxysilane 2943-75-1	sediment (freshwater)				0.51 mg/kg		
octyltriethoxysilane 2943-75-1	sediment (marine water)				0.051 mg/kg		
octyltriethoxysilane 2943-75-1	Soil				0.08 mg/kg		
octyltriethoxysilane 2943-75-1	Sewage treatment plant		>= 100 mg/l				
Chromium (III) oxide 1308–38–9	Soil				3.2 mg/kg		
Chromium (III) oxide 1308–38–9	Sewage treatment plant		10 mg/l				
Chromium (III) oxide 1308–38–9	sediment (marine water)				1.31 mg/kg		
Chromium (III) oxide 1308–38–9	aqua (marine water)		0.0047 mg/l				
Chromium (III) oxide 1308–38–9	aqua (intermittent releases)		0.0047 mg/l				
Chromium (III) oxide 1308–38–9	sediment (freshwater)				18.2 mg/kg		
Chromium (III) oxide 1308–38–9	aqua (freshwater)		0.0047 mg/l				

Derived No-Effect Level (DNEL):

Name on the list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Bismuth vanadium tetraoxide 14059-33-7	Workers	inhalation	Long term exposure – systemic effects		0.02 mg/m³	
Bismuth vanadium tetraoxide 14059-33-7	general population	inhalation	Long term exposure – systemic effects		0.005 mg/m³	
octyltriethoxysilane 2943-75-1	Workers	inhalation	Long term exposure – systemic effects		16 mg/m³	
octyltriethoxysilane 2943-75-1	Workers	inhalation	Acute/short term exposure – systemic effects		16 mg/m³	
octyltriethoxysilane 2943-75-1	Workers	dermal	Long term exposure – systemic effects		9.1 mg/kg	
octyltriethoxysilane	Workers	dermal	Acute/short		9.1 mg/kg	

2943-75-1			term exposure – systemic effects			
octyltriethoxysilane 2943-75-1	general population	inhalation	Long term exposure – systemic effects		5.4 mg/m³	
octyltriethoxysilane 2943-75-1	general population	inhalation	Acute/short term exposure – systemic effects		5.4 mg/m³	
octyltriethoxysilane 2943-75-1	general population	dermal	Long term exposure – systemic effects		6.2 mg/kg	
octyltriethoxysilane 2943-75-1	general population	dermal	Acute/short term exposure – systemic effects		6.2 mg/kg	
octyltriethoxysilane 2943-75-1	general population	oral	Long term exposure – systemic effects		6.2 mg/kg	
octyltriethoxysilane 2943-75-1	general population	oral	Acute/short term exposure – systemic effects		6.2 mg/kg	
Chromium (III) oxide 1308-38-9	Workers	Inhalation	Acute/short term exposure – local effects		2 mg/m³	
Chromium (III) oxide 1308-38-9	Workers	Inhalation	Long term exposure – systemic effects		0.5 mg/m³	
Chromium (III) oxide 1308-38-9	general population	Inhalation	Long term exposure – systemic effects		0.5 mg/m³	

Biological Exposure Indices:

None

8.2. Exposure controls:

Respiratory protection:

Ensure adequate ventilation.

Hand protection:

Recommended are gloves made from Nitrile rubber (Material thickness > 0.1 mm, Perforation time < 30 s). Gloves should be replaced after each short time contact or contamination. Available at laboratory specialized trade or at pharmacies/chemist's shops.

Eye protection:

Goggles which can be tightly sealed.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	liquid
	liquid
	white
Odour	characteristic
Odour threshold	No data available/Not applicable
pH	7.5–8.5
(20°C (68°F)); Concentration: 100% factory)	
Melting point	No data available/Not applicable
Solidification temperature	No data available/Not applicable
Initial boiling point	No data available/Not applicable
Flash point	No data available/Not applicable
Evaporation rate	No data available/Not applicable
Flammability	No data available/Not applicable
explosive limits	No data available/Not applicable
Vapour pressure	No data available/Not applicable
Relative vapour density:	No data available/Not applicable
Density	0.945–1.155 g/cm³
(20°C (68°F))	
Bulk density	No data available/Not applicable
solubility	No data available/Not applicable
Solubility (qualitative)	insoluble
(20°C (68°F)); Solvent: Water)	
partition coefficient: n-octanol/water	No data available/Not applicable
Auto-ignition temperature	No data available/Not applicable
Decomposition temperature	No data available/Not applicable
Viscosity	No data available/Not applicable
Viscosity (kinematic)	No data available/Not applicable
explosive properties	No data available/Not applicable
Oxidising properties	No data available/Not applicable

9.2. Other information

No data available/Not applicable

max. volatile organic compounds: 15 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

None if used for intended purpose.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

see Section Reactivity

10.4. Conditions to avoid

None if used for intended purpose.

10.5. Incompatible materials

None if used properly.

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information

General toxicological information:

An allergic reaction cannot be excluded after repeated skin contact.

11.1. Information on toxicological effects

Acute oral toxicity:

The mixture is classified based on the calculation method referring to the classified substances present in the mixture.

Hazardous substances **CAS-No.**	**Value type**	**Value**	**Species**	**Method**
octyltriethoxysilane 2943-75-1	LD50	11.500 mg/kg	rabbit	not specified
Chromium (III) oxide 1308-38-9	LD50	> 5.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Hydrocarbons C10-C13, n-alkanes, isoalkanes, cyclic, < 2% aromatic 1174522-09-8	LD50	> 5.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	LD50	1.193 mg/kg	rat	not specified
Isothiazolinone mixture 3: 1 (CIT/MIT) 55965-84-9	LD50	53 mg/kg	rat	not specified

Acute dermal toxicity:

The mixture is classified based on the calculation method referring to the classified substances present in the mixture.

Hazardous substances **CAS-No.**	**Value type**	**Value**	**Species**	**Method**
octyltriethoxysilane 2943-75-1	LD50	6.730 mg/kg	rabbit	not specified
Hydrocarbons C10-C13, n-alkanes, isoalkanes, cyclic, < 2% aromatic 1174522-09-8	LD50	> 5.000 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	LD50	> 5.000 mg/kg	rat	EPA OPP 81-2 (Acute Dermal Toxicity)

Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	LD50	87.12 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)

Acute inhalative toxicity:

The mixture is classified based on the calculation method referring to the classified substances present in the mixture.

Hazardous substances **CAS-No.**	**Value type**	**Value**	**Test atmosphere**	**Exposure time**	**Species**	**Method**
Chromium (III) oxide 1308-38-9	LC50	> 5.41 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
Hydrocarbons C10-C13, n-alkanes, isoalkanes, cyclic, < 2% aromatic 1174522-09-8	LC50	> 5.6 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	LC50	0.4 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
Isothiazolinone mixture 3: 1 (CIT/MIT) 55965-84-9	LC50	0.171 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)

Skin corrosion/irritation:

The mixture is classified based on the calculation method referring to the classified substances present in the mixture.

Hazardous substances **CAS-No.**	**Result**	**Exposure time**	**Species**	**Method**
octyltriethoxysilane 2943-75-1	moderately irritating	4 h	rabbit	Draize test
Chromium (III) oxide 1308-38-9	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation/Corrosion)
Hydrocarbons C10-C13, n-alkanes, isoalkanes, cyclic, < 2% aromatic 1174522-09-8	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation/Corrosion)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	moderately irritating	4 h	rabbit	EPA OPP 81-5 (Acute Dermal Irritation)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	corrosive			not specified

Serious eye damage/eye irritation:

The mixture is classified based on the calculation method referring to the classified substances present in the mixture.

Hazardous substances **CAS-No.**	**Result**	**Exposure time**	**Species**	**Method**
octyltriethoxysilane 2943-75-1	moderately irritating		rabbit	Draize test
Chromium (III) oxide	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation/Corrosion)

1308-38-9				
1,2-Benzisothiazol-3(2H)-one 2634-33-5	highly irritating	48 h	rabbit	EPA OPP 81-4 (Acute Eye Irritation)

Respiratory or skin sensitization:

The mixture is classified based on the threshold limits referring to the classified substances present in the mixture.

Hazardous substances **CAS-No.**	**Result**	**Test type**	**Species**	**Method**
Chromium (III) oxide 1308-38-9	not sensitizing	Buehler test (assessment of the skin sensitization of chemicals)	guinea pig	OECD Guideline 406 (Skin Sensitization)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	Sensitizing.	guinea pig maximisation test	guinea pig	Magnusson and Kligman Method
1,2-Benzisothiazol-3(2H)-one 2634-33-5	Sensitizing.	Mouse local lymph node assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Isothiazolinone mixture 3: 1 (CIT/MIT) 55965-84-9	Sensitizing.		guinea pig	not specified

Germ cell mutagenicity:

The mixture is classified based on the threshold limits referring to the classified substances present in the mixture.

Hazardous substances **CAS-No.**	**Result**	**Type of study/Route of administration**	**Metabolic activation/Exposure time**	**Species**	**Method**
octyltriethoxysilane 2943-75-1	negative	Bacterial reverse mutation assay (e.g. Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Chromium (III) oxide 1308-38-9	negative	Bacterial reverse mutation assay (e.g. Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	negative	Bacterial reverse mutation assay (e.g. Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)

carcinogenicity

No data available

Reproductive toxicity:

No data available

STOT (Specific Target Organ Toxicity)—single exposure:

No data available

STOT (Specific Target Organ Toxicity)—repeated exposure:

The mixture is classified based on the threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result/Value	Method	Exposure time/Frequency of treatment	Species	Method
Chromium (III) oxide 1308-38-9	NOAEL > 2.000 mg/kg	oral: feed	90 d 5 d/w	rat	not specified
1,2-Benzisothiazol-3(2H)-one 2634-33-5	NOAEL 10 mg/kg	oral: gavage	90 days daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

aspiration hazard:

The mixture is classified based on viscosity data.

Hazardous substances CAS-No.	Viscosity (kinematic) Value	Temperature	Method	Remarks
Hydrocarbons C10-C13, n-alkanes, isoalkanes, cyclic, < 2% aromatic 1174522-09-8	1.13 mm²/s	40° C	not specified	

SECTION 12: Ecological information

General ecological information:

Do not empty into drains, soil or bodies of water.

12.1. Toxicity

Toxicity (Fish)

The mixture is classified based on the calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Bismuth vanadium tetraoxide 14059-33-7	LC50	> 10.000 mg/l	96 h		OECD Guideline 203 (Fish, Acute Toxicity Test)
octyltriethoxysilane 2943-75-1	LC50		96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Chrome antimony titanium buff rutile 68186-90-3	LC50	> 10.000 mg/l	96 h	Leuciscus idus	DIN 38412-15
Chromium (III) oxide 1308-38-9	LC50	> 10.000 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	ISO 7346–1 (Determination of the Acute Lethal Toxicity of Substances to a Freshwater Fish) [Brachydanio rerio Hamilton-Buchanan Teleostei, Cyprinidae)]
Hydrocarbons C10-C13, n-alkanes, isoalkanes, cyclic, < 2% aromatic 1174522-09-8	LL50	> 1.000 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
1,2-Benzisothiazol-3(2H)-	LC50	1.4 mg/l	96 h	Salmo gairdneri (new	OECD Guideline 203

one 2634-33-5				name: Oncorhynchus mykiss)	(Fish, Acute Toxicity Test)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	NOEC	0.21 mg/l	30 d	Oncorhynchus mykiss	OECD Guideline 215 (Fish, Juvenile Growth Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	LC50	0.22 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	NOEC	0.098 mg/l	28 d	Oncorhynchus mykiss	OECD Guideline 210 (fish early life stage toxicity test)

Toxicity (Daphnia)

The mixture is classified based on the calculation method referring to the classified substances present in the mixture.

Hazardous substances **CAS-No.**	**Value type**	**Value**	**Exposure time**	**Species**	**Method**
Bismuth vanadium tetraoxide 14059-33-7	EC50	> 100 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
octyltriethoxysilane 2943-75-1	EC50		48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Chrome antimony titanium buff rutile 68186-90-3	EC50	> 100 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Hydrocarbons C10-C13, n-alkanes, isoalkanes, cyclic, < 2% aromatic 1174522-09-8	EL50	> 1.000 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	EC50	1.05 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	EC50	0.12 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Chronic toxicity to aquatic invertebrates

The mixture is classified based on the calculation method referring to the classified substances present in the mixture.

Hazardous substances **CAS-No.**	**Value type**	**Value**	**Exposure time**	**Species**	**Method**
octyltriethoxysilane 2943-75-1	NOELR		21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	NOEC	1.2 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	NOEC	0.0036 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

Toxicity (Algae)

The mixture is classified based on the calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
octyltriethoxysilane 2943-75-1	NOEC		72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
octyltriethoxysilane 2943-75-1	EC50		72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Chrome antimony titanium buff rutile 68186-90-3	EC50	> 100 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Chrome antimony titanium buff rutile 68186-90-3	NOEC	> 100 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Hydrocarbons C10-C13, n-alkanes, isoalkanes, cyclic, < 2% aromatic 1174522-09-8	EL50	> 1.000 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Hydrocarbons C10-C13, n-alkanes, isoalkanes, cyclic, < 2% aromatic 1174522-09-8	NOELR	1.000 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	EC50	0.11 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
1,2-Benzisothiazol-3(2H)-one 2634–33–5	NOEC	0.027 mg/l	72 h	Skeletonema costatum	OECD Guideline 201 (Alga, Growth Inhibition Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	EC50	0.0052 mg/l	48 h	Skeletonema costatum	OECD Guideline 201 (Alga, Growth Inhibition Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	NOEC	0.00064 mg/l	48 h	Skeletonema costatum	OECD Guideline 201 (Alga, Growth Inhibition Test)

Toxicity to microorganisms

The mixture is classified based on the calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
octyltriethoxysilane 2943-75-1	EC50		3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Chrome antimony titanium buff rutile 68186-90-3	EC10	> 10.000 mg/l	30 min		not specified
1,2-Benzisothiazol-3(2H)-one 2634-33-5	EC50	23 mg/l	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	EC20	0.97 mg/l	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

12.2. Persistence and degradability

Hazardous substances **CAS-No.**	**Result**	**Test type**	**Degradability**	**Exposure time**	**Method**
octyltriethoxysilane 2943-75-1	Not readily biodegradable.	aerobic	18.7%	29 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Hydrocarbons C10-C13, n-alkanes, isoalkanes, cyclic, < 2% aromatic 1174522-09-8	readily biodegradable, but failing 10-day window	aerobic	80%	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	Readily biodegradable	aerobic	> 60%	28 d	OECD 301 A–F
Isothiazolinone mixture 3: 1 (CIT/MIT) 55965-84-9	inherently biodegradable	aerobic	100%	28 d	OECD Guideline 302 B (Inherent biodegradability: Zahn–Wellens/EMPA Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	Readily biodegradable	aerobic	> 60%	28 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)

12.3. Bioaccumulative potential

Hazardous substances **CAS-No.**	**Bioconcentration factor (BCF)**	**Exposure time**	**Temperature**	**Species**	**Method**
octyltriethoxysilane 2943-75-1	1.450	56 d		Cyprinus carpio	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	6.62			not specified	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	3.6			calculation	QSAR (Quantitative Structure Activity Relationship)

12.4. Mobility in soil

Hazardous substances **CAS-No.**	**LogPow**	**Temperature**	**Method**
octyltriethoxysilane 2943-75-1	6.41	30°C	OECD Guideline 117 (Partition Coefficient (n-octanol/water), HPLC Method)
Chromium (III) oxide 1308-38-9	2.97		not specified
1,2-Benzisothiazol-3(2H)-one	1.3		EU Method A.8 (Partition Coefficient)

2634-33-5			
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	-0.71 - 0.75	20°C	OECD Guideline 117 (Partition Coefficient (n-octanol/water), HPLC Method)

12.5. Results of PBT and vPvB assessment

Hazardous substances **CAS-No.**	**PBT/vPvB**
Bismuth vanadium tetraoxide 14059-33-7	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
octyltriethoxysilane 2943-75-1	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Chromium (III) oxide 1308-38-9	According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not be conducted for inorganic substances.
Hydrocarbons C10-C13, n-alkanes, isoalkanes, cyclic, < 2% aromatic 1174522–09–8	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
1,2-Benzisothiazol-3(2H)-one 2634-33-5	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Isothiazolinone mixture 3: 1 (CIT/MIT) 55965-84-9	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

Dispose of waste and residues in accordance with local authority requirements.

Disposal of uncleaned packages:

Use packages for recycling only when totally empty.

Waste code

080120

SECTION 14: Transport information

14.1. UN number

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR

14.2. UN proper shipping name

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR

14.3. Transport hazard class(es)

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR

14.4. Packing group

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR

14.5. Environmental hazards

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR

14.6. Special precautions for user

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

VOC content (CH) 0.00%

Volatile organic compounds in paints and varnishes (EU):

Regulatory framework:	Directive 2004/42/EC
Product (sub)category:	A(c) External walls of mineral substrate
Phase I (from 01.01.2007):	75 g/l
Phase II (from 01.01.2010):	40 g/l
max. volatile organic compounds:	15 g/l

15.2. Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

National regulations/information (Bulgaria):

Remarks The Protection Against the Harmful Impact of Chemical Substances and Preparations ACT (PAHICSPA) and the ORDINANCE on the procedure and method of classification, packaging and labelling of chemical substances and preparations.

The preparation is not classified as hazardous, in accordance with the PAHICSPA and the Ordinance on the procedure and method of classification, packaging and labelling of chemical substances and preparations.

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H310 Fatal in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H330 Fatal if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

Further information:

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is

intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different colour on shadowed fields.