



Safety Data Sheet according to (EC) No 1907/2006 as amended

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Ceresit CT 74/BASE_2017/1,5mm

SDS No. : 521585
V005.1

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

1.1. Product identifier

Ceresit CT 74/BASE_2017/1,5mm

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

Intended use:

Plaster

1.3. Details of the supplier of the safety data sheet

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For Safety Data Sheet updates please visit our website <https://mysds.henkel.com/index.html#/appSelection> or www.henkel-adhesives.com.

1.4. Emergency telephone number

24 Hours Emergency Tel: +44 0 8701 906777 - For further general health & safety, technical and practical advice on this product, please call +44 (0) 1606 593933 or write to: Technical Services; Henkel Limited; Road 5; Winsford Industrial Estate; Winsford; Cheshire; CW7 3QY- Email: technical.services@henkel.co.uk

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

Specific target organ toxicity - repeated exposure

Category 2

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

Chronic hazards to the aquatic environment

Category 3

H412 Harmful to aquatic life with long lasting effects.

2.2. Label elements

Label elements (CLP):

Hazard pictogram:



Contains

Quartz (SiO₂) respirable particulates (RCS) $\geq 10\%$

Signal word:	Warning
Hazard statement:	H373 May cause damage to organs through prolonged or repeated exposure. H412 Harmful to aquatic life with long lasting effects.
Supplemental information	EUH212 Warning! Hazardous respirable dust may be formed when used. Do not breathe dust. Contains: 2-Octyl-2H-isothiazol-3-one; Isothiazolinone mixture 3:1 (CIT/MIT); 1,2-Benzisothiazol-3(2H)-one May produce an allergic reaction.
Precautionary statement:	P260 Do not breathe mist/vapours.
Prevention	P262 Do not get in eyes, on skin, or on clothing. P273 Avoid release to the environment.

2.3. Other hazards

None if used properly.

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

Following substances are present in a concentration $\geq 0,1\%$ and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in concentration $\geq$ the concentration limit that are assessed to be a PBT, vPvB or ED.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No. EC Number REACH-Reg No.	Concentration	Classification	Specific Conc. Limits, M- factors and ATEs	Add. Information
Quartz (SiO ₂) respirable particulates (RCS) >=10% 14808-60-7 238-878-4	1- < 10 %	STOT RE 1, H372		
Titanium dioxide 13463-67-7 236-675-5	1- < 5 %	Carc. 2, Inhalation, H351		
Chromium (III) oxide 1308-38-9 215-160-9 01-2119433951-39	1- < 5 %			EU OEL
Chrome antimony titanium buff rutile 68186-90-3 269-052-1 01-2119491294-33	1- < 5 %			EU OEL
Bismuth vanadium tetraoxide 14059-33-7 237-898-0 01-2119486965-17	1- < 5 %	STOT RE 2, Inhalation, H373		
trizinc bis(orthophosphate) 7779-90-0 231-944-3 01-2119485044-40	0,1- < 1 %	Aquatic Chronic 1, H410 Aquatic Acute 1, H400	M acute = 1 M chronic = 1	
Amines, C16-18 and C16-18- unsatd. alkyl 1213789-63-9 01-2119473797-19	0,01- < 0,1 %	Skin Corr. 1B, H314 Acute Tox. 4, Oral, H302 STOT RE 2, Oral, H373 Aquatic Acute 1, H400 STOT SE 3, H335 Asp. Tox. 1, H304 Eye Dam. 1, H318 Aquatic Chronic 2, H411	M acute = 10	
3-iodo-2-propynyl butylcarbamate 55406-53-6 259-627-5 01-2120762115-60	0,01- < 0,25 %	Aquatic Chronic 1, H410 STOT RE 1, H372 Acute Tox. 3, Inhalation, H331 Skin Sens. 1, H317 Eye Dam. 1, H318 Aquatic Acute 1, H400 Acute Tox. 4, Oral, H302 STOT SE 3, H335	M acute = 10 M chronic = 1	
1,2-Benzisothiazol-3(2H)-one 2634-33-5 220-120-9 01-2120761540-60	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, Inhalation, H330	Skin Sens. 1; H317; C >= 0,05 % ===== M acute = 1	
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2 223-296-5 01-2119493385-28	0,001- < 0,05 % (10 ppm- < 500 ppm)	Acute Tox. 4, Oral, H302 Acute Tox. 4, Dermal, H312 Skin Irrit. 2, Dermal, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Acute Tox. 3, Inhalation, H331 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	M acute = 100 ===== inhalation:ATE = 0,5 mg/l;dust/mist	
terbutryn 886-50-0 212-950-5	0,001- < 0,005 % (10 ppm- < 50 ppm)	Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Acute Tox. 4, Oral, H302	M acute = 100 M chronic = 100 =====	

		Skin Sens. 1B, H317	oral:ATE = 1.000 mg/kg	
pyrithione zinc 13463-41-7 236-671-3 01-2119511196-46	0,0001- < 0,005 % (1 ppm- < 50 ppm)	Repr. 1B, H360D Aquatic Chronic 1, H410 Eye Dam. 1, H318 STOT RE 1, H372 Acute Tox. 2, Inhalation, H330 Aquatic Acute 1, H400 Acute Tox. 3, Oral, H301	M acute = 1.000 M chronic = 10 ===== oral:ATE = 221 mg/kg inhalation:ATE = 0,14 mg/l;dust/mist	
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9 01-2120764691-48	0,0001- < 0,0015 % (1 ppm- < 15 ppm)	Acute Tox. 2, Inhalation, H330 Aquatic Chronic 1, H410 Acute Tox. 3, Oral, H301 Acute Tox. 2, Dermal, H310 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Skin Corr. 1C, H314	Eye Irrit. 2; H319; C 0,06 - < 0,6 % Skin Irrit. 2; H315; C 0,06 - < 0,6 % Eye Dam. 1; H318; C >= 0,6 % Skin Sens. 1A; H317; C >= 0,0015 % Skin Corr. 1C; H314; C >= 0,6 % ===== M acute = 100 M chronic = 100	
2-Octyl-2H-isothiazol-3-one 26530-20-1 247-761-7 01-2120768921-45	0,0001- < 0,001 % (1 ppm- < 10 ppm)	Acute Tox. 2, Inhalation, H330 Acute Tox. 3, Dermal, H311 Skin Corr. 1, H314 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Acute Tox. 3, Oral, H301 Aquatic Chronic 1, H410 Eye Dam. 1, H318	Skin Sens. 1A; H317; C >= 0,0015 % ===== M acute = 100 M chronic = 100 ===== dermal:ATE = 311 mg/kg oral:ATE = 125 mg/kg inhalation:ATE = 0,27 mg/l;dust/mist	

For 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:

In case of adverse health effects seek medical advice.

Inhalation:

Move to fresh air, consult doctor if complaint persists.

Skin contact:

Rinse with running water and soap. Skin care. Remove contaminated clothes immediately.

Eye contact:

Immediately flush eyes with soft jet of water or eye rinse solution for at least 5 minutes. If pains remain (intensive smarting, sensitivity to light, visual disturbance) continue flushing and contact/seek doctor or hospital.

Ingestion:

Rinse mouth and throat. Drink 1-2 glasses of water. Seek medical advice.

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: Firefighting measures

5.1. Extinguishing media**Suitable extinguishing media:**

carbon dioxide, foam, 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 (CO₂) can be released.

5.3. Advice for firefighters

Wear protective equipment.

Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective equipment.

Avoid contact with skin and eyes.

Ensure adequate ventilation.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Dispose of contaminated material as waste according to Section 13.

Remove mechanically.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Avoid skin and eye contact.

Ensure that workrooms are adequately ventilated.

Hygiene measures:

Do not eat, drink or smoke while working.

Wash hands before work breaks and after finishing work.

7.2. Conditions for safe storage, including any incompatibilities

Store in sealed original container protected against moisture.

Store in a cool, dry place.

Avoid strictly temperatures below 0 °C and above + 50 °C.

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

7.3. Specific end use(s)

Plaster

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for
Great Britain

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Dolomite 16389-88-1 [DUST, INHALABLE DUST]		10	Time Weighted Average (TWA):		EH40 WEL
Dolomite 16389-88-1 [DUST, RESPIRABLE DUST]		4	Time Weighted Average (TWA):		EH40 WEL
Limestone 1317-65-3 [CALCIUM CARBONATE, INHALABLE DUST]		10	Time Weighted Average (TWA):		EH40 WEL
Limestone 1317-65-3 [CALCIUM CARBONATE, RESPIRABLE DUST]		4	Time Weighted Average (TWA):		EH40 WEL
Limestone 1317-65-3 [LIMESTONE, RESPIRABLE MARBLE, RESPIRABLE]		4	Time Weighted Average (TWA):		EH40 WEL
Limestone 1317-65-3 [LIMESTONE, TOTAL INHALABLE MARBLE, TOTAL INHALABLE]		10	Time Weighted Average (TWA):		EH40 WEL
Quartz (SiO ₂) 14808-60-7 [SILICA, RESPIRABLE CRYSTALLINE]		0,1	Time Weighted Average (TWA):		EH40 WEL
Quartz (SiO ₂) 14808-60-7 [RESPIRABLE CRYSTALLINE SILICA DUST]		0,1	Time Weighted Average (TWA):		EU OELIII
Chromium (III) oxide 1308-38-9 [CHROMIUM (III) COMPOUNDS (AS CR)]		0,5	Time Weighted Average (TWA):		EH40 WEL
Chromium (III) oxide 1308-38-9 [CHROMIUM METAL, INORGANIC CHROMIUM(II) COMPOUNDS AND INORGANIC CHROMIUM(III) COMPOUNDS (INSOLUBLE)]		2	Time Weighted Average (TWA):	Indicative	ECTLV
Chromium (III) oxide 1308-38-9 [Chromium (II) compounds (as Cr)]		0,5	Time Weighted Average (TWA):		EH40 WEL
Chrome antimony titanium buff rutile 68186-90-3 [Antimony and compounds except stibine (as Sb)]		0,5	Time Weighted Average (TWA):		EH40 WEL
Chrome antimony titanium buff rutile 68186-90-3 [Chromium (III) compounds (as Cr)]		0,5	Time Weighted Average (TWA):		EH40 WEL
Chrome antimony titanium buff rutile 68186-90-3 [CHROMIUM METAL, INORGANIC CHROMIUM(II) COMPOUNDS AND INORGANIC CHROMIUM(III) COMPOUNDS (INSOLUBLE)]		2	Time Weighted Average (TWA):	Indicative	ECTLV
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE, RESPIRABLE]		4	Time Weighted Average (TWA):		EH40 WEL
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE, TOTAL INHALABLE]		10	Time Weighted Average (TWA):		EH40 WEL

Cobalt aluminate blue spinel 1345-16-0 [COBALT AND COBALT COMPOUNDS (AS CO)]		0,1	Time Weighted Average (TWA):		EH40 WEL
Diiron trioxide 1309-37-1 [ROUGE, RESPIRABLE]		4	Time Weighted Average (TWA):		EH40 WEL
Diiron trioxide 1309-37-1 [ROUGE, TOTAL INHALABLE]		10	Time Weighted Average (TWA):		EH40 WEL
Diiron trioxide 1309-37-1 [IRON OXIDE, FUME (AS FE)]		5	Time Weighted Average (TWA):		EH40 WEL
Diiron trioxide 1309-37-1 [IRON OXIDE, FUME (AS FE)]		10	Short Term Exposure Limit (STEL):	15 minutes	EH40 WEL
Propane-1,2-diol 57-55-6 [PROPANE-1,2-DIOL, PARTICULATES]		10	Time Weighted Average (TWA):		EH40 WEL
Propane-1,2-diol 57-55-6 [PROPANE-1,2-DIOL, TOTAL VAPOUR AND PARTICULATES]	150	474	Time Weighted Average (TWA):		EH40 WEL

Occupational Exposure Limits

Valid for
Ireland

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Dolomite 16389-88-1 [DUSTS NON-SPECIFIC]		4	Time Weighted Average (TWA):		IR_OEL
Dolomite 16389-88-1 [DUSTS NON-SPECIFIC]		10	Time Weighted Average (TWA):		IR_OEL
Limestone 1317-65-3 [CALCIUM CARBONATE]		4	Time Weighted Average (TWA):		IR_OEL
Limestone 1317-65-3 [CALCIUM CARBONATE]		10	Time Weighted Average (TWA):		IR_OEL
Quartz (SiO ₂) 14808-60-7 [RESPIRABLE CRYSTALLINE SILICA DUST]		0,1	Time Weighted Average (TWA):		EU OELIII
Quartz (SiO ₂) 14808-60-7 [Silica, crystalline, respirable dust (Cristobalite, Quartz, Tridymite, Tripoli)]		0,1	Time Weighted Average (TWA):	Binding OELV	IR_OEL
Chromium (III) oxide 1308-38-9 [CHROMIUM METAL, INORGANIC CHROMIUM(II) COMPOUNDS AND INORGANIC CHROMIUM(III) COMPOUNDS (INSOLUBLE)]		2	Time Weighted Average (TWA):	Indicative	ECTLV
Chromium (III) oxide 1308-38-9 [CHROMIUM (III) COMPOUNDS]		2	Time Weighted Average (TWA):	Indicative OELV	IR_OEL
Chromium (III) oxide 1308-38-9 [CHROMIUM (II) COMPOUNDS]		2	Time Weighted Average (TWA):	Indicative OELV	IR_OEL
Chrome antimony titanium buff rutile 68186-90-3 [CHROMIUM (III) COMPOUNDS]		2	Time Weighted Average (TWA):	Indicative OELV	IR_OEL
Chrome antimony titanium buff rutile 68186-90-3 [CHROMIUM METAL, INORGANIC CHROMIUM(II) COMPOUNDS AND INORGANIC CHROMIUM(III) COMPOUNDS (INSOLUBLE)]		2	Time Weighted Average (TWA):	Indicative	ECTLV
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE]		10	Time Weighted Average (TWA):		IR_OEL

Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE]		4	Time Weighted Average (TWA):		IR_OEL
Diiron trioxide 1309-37-1 [IRON OXIDE]		5	Time Weighted Average (TWA):		IR_OEL
Diiron trioxide 1309-37-1 [ROUGE RESPIRABLE DUST]		4	Time Weighted Average (TWA):		IR_OEL
Diiron trioxide 1309-37-1 [IRON OXIDE]		10	Short Term Exposure Limit (STEL):	15 minutes	IR_OEL
Diiron trioxide 1309-37-1 [ROUGE]		10	Time Weighted Average (TWA):		IR_OEL
Propane-1,2-diol 57-55-6 [PROPANE-1,2-DIOL]		10	Time Weighted Average (TWA):		IR_OEL
Propane-1,2-diol 57-55-6 [PROPANE-1,2-DIOL]	150	470	Time Weighted Average (TWA):		IR_OEL

Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
Titanium dioxide 13463-67-7	aqua (freshwater)						no hazard identified
Titanium dioxide 13463-67-7	aqua (marine water)						no hazard identified
Titanium dioxide 13463-67-7	sewage treatment plant (STP)						no hazard identified
Titanium dioxide 13463-67-7	sediment (freshwater)						no hazard identified
Titanium dioxide 13463-67-7	sediment (marine water)						no hazard identified
Titanium dioxide 13463-67-7	Soil						no hazard identified
Titanium dioxide 13463-67-7	Air						no hazard identified
Titanium dioxide 13463-67-7	Predator						no potential for bioaccumulation
Chromium (III) oxide 1308-38-9	Soil				3,2 mg/kg		
Chromium (III) oxide 1308-38-9	sewage treatment plant (STP)		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				
Chrome antimony titanium buff rutile 68186-90-3	aqua (freshwater)		0,1 mg/l				
Chrome antimony titanium buff rutile 68186-90-3	aqua (marine water)		0,01 mg/l				
Chrome antimony titanium buff rutile 68186-90-3	sewage treatment plant (STP)		1000 mg/l				
Chrome antimony titanium buff rutile 68186-90-3	aqua (intermittent releases)		1 mg/l				
Bismuth vanadium tetraoxide 14059-33-7	sewage treatment plant (STP)		10000 mg/l				
Trizinc bis(orthophosphate) 7779-90-0	aqua (freshwater)		0,0206 mg/l				
Trizinc bis(orthophosphate) 7779-90-0	aqua (marine water)		0,0061 mg/l				
Trizinc bis(orthophosphate) 7779-90-0	sewage treatment plant (STP)		0,1 mg/l				
Trizinc bis(orthophosphate) 7779-90-0	sediment (freshwater)				117,8 mg/kg		
Trizinc bis(orthophosphate) 7779-90-0	sediment (marine water)				56,5 mg/kg		
Trizinc bis(orthophosphate) 7779-90-0	Soil				35,6 mg/kg		
Amines, C16-18 and C16-18-unsatd. alkyl 1213789-63-9	aqua (freshwater)		0,00026 mg/l				
Amines, C16-18 and C16-18-unsatd. alkyl 1213789-63-9	Soil				10 mg/kg		
Amines, C16-18 and C16-18-unsatd. alkyl 1213789-63-9	sewage treatment plant (STP)		0,550 mg/l				
Amines, C16-18 and C16-18-unsatd. alkyl 1213789-63-9	sediment (freshwater)				3,76 mg/kg		
Amines, C16-18 and C16-18-unsatd. alkyl	sediment				0,376		

1213789-63-9	(marine water)				mg/kg		
Amines, C16-18 and C16-18-unsatd. alkyl 1213789-63-9	aqua (marine water)		0,000026 mg/l				
1,2-Benzisothiazol-3(2H)-one 2634-33-5	aqua (freshwater)		0,00403 mg/l				
1,2-Benzisothiazol-3(2H)-one 2634-33-5	aqua (marine water)		0,000403 mg/l				
1,2-Benzisothiazol-3(2H)-one 2634-33-5	aqua (intermittent releases)		0,0011 mg/l				
1,2-Benzisothiazol-3(2H)-one 2634-33-5	sewage treatment plant (STP)		1,03 mg/l				
1,2-Benzisothiazol-3(2H)-one 2634-33-5	sediment (freshwater)				0,0499 mg/kg		
1,2-Benzisothiazol-3(2H)-one 2634-33-5	sediment (marine water)				0,00499 mg/kg		
1,2-Benzisothiazol-3(2H)-one 2634-33-5	Soil				3 mg/kg		
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9	aqua (freshwater)		0,00339 mg/l				
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9	aqua (marine water)		0,00339 mg/l				
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9	sewage treatment plant (STP)		0,23 mg/l				
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9	sediment (freshwater)				0,027 mg/kg		
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9	sediment (marine water)				0,027 mg/kg		
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9	Soil				0,01 mg/kg		
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9	aqua (intermittent releases)		0,00339 mg/l				
2-Octyl-2H-isothiazol-3-one 26530-20-1	sediment (freshwater)				0,0475 mg/kg		
2-Octyl-2H-isothiazol-3-one 26530-20-1	sediment (marine water)				0,00475 mg/kg		
2-Octyl-2H-isothiazol-3-one 26530-20-1	aqua (freshwater)		0,0022 mg/l				
2-Octyl-2H-isothiazol-3-one 26530-20-1	aqua (intermittent releases)		0,0012 mg/l				
2-Octyl-2H-isothiazol-3-one 26530-20-1	aqua (marine water)		0,00022 mg/l				
2-Octyl-2H-isothiazol-3-one 26530-20-1	Soil				0,0082 mg/kg		

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Chromium (III) oxide 1308-38-9	Workers	Inhalation	Acute/short term exposure - local effects		2 mg/m ³	
Chromium (III) oxide 1308-38-9	Workers	Inhalation	Long term exposure - local effects		0,5 mg/m ³	
Chromium (III) oxide 1308-38-9	General population	Inhalation	Long term exposure - local effects		0,5 mg/m ³	
Chrome antimony titanium buff rutile 68186-90-3	Workers	inhalation	Long term exposure - local effects		4 mg/m ³	
Chrome antimony titanium buff rutile 68186-90-3	General population	inhalation	Long term exposure - local effects		3 mg/m ³	
Bismuth vanadium tetraoxide 14059-33-7	Workers	inhalation	Long term exposure - local effects		0,02 mg/m ³	
Bismuth vanadium tetraoxide 14059-33-7	General population	inhalation	Long term exposure - local effects		0,005 mg/m ³	
Trizinc bis(orthophosphate) 7779-90-0	Workers	inhalation	Long term exposure - systemic effects		5 mg/m ³	
Trizinc bis(orthophosphate) 7779-90-0	Workers	dermal	Long term exposure - systemic effects		83 mg/kg	
Trizinc bis(orthophosphate) 7779-90-0	General population	inhalation	Long term exposure - systemic effects		2,5 mg/m ³	
Trizinc bis(orthophosphate) 7779-90-0	General population	dermal	Long term exposure - systemic effects		83 mg/kg	
Trizinc bis(orthophosphate) 7779-90-0	General population	oral	Long term exposure - systemic effects		0,83 mg/kg	
Amines, C16-18 and C16-18-unsatd. alkyl 1213789-63-9	Workers	Inhalation	Long term exposure - systemic effects		0,38 mg/m ³	
Amines, C16-18 and C16-18-unsatd. alkyl 1213789-63-9	Workers	inhalation	Long term exposure - local effects		1 mg/m ³	
Amines, C16-18 and C16-18-unsatd. alkyl 1213789-63-9	Workers	inhalation	Acute/short term exposure - local effects		1 mg/m ³	
Amines, C16-18 and C16-18-unsatd. alkyl 1213789-63-9	General population	inhalation	Long term exposure - systemic effects		0,035 mg/m ³	
Amines, C16-18 and C16-18-unsatd. alkyl 1213789-63-9	General population	oral	Long term exposure - systemic effects		40 µg/kg	
3-Iodo-2-propynyl butylcarbamate 55406-53-6	Workers	inhalation	Long term exposure - systemic effects		0,023 mg/m ³	
3-Iodo-2-propynyl butylcarbamate 55406-53-6	Workers	inhalation	Acute/short term exposure - systemic effects		0,07 mg/m ³	
3-Iodo-2-propynyl butylcarbamate 55406-53-6	Workers	inhalation	Long term exposure - local effects		1,16 mg/m ³	
3-Iodo-2-propynyl butylcarbamate 55406-53-6	Workers	dermal	Long term exposure - systemic effects		2 mg/kg	
3-Iodo-2-propynyl butylcarbamate 55406-53-6	Workers	inhalation	Acute/short term exposure - local effects		1,16 mg/m ³	
1,2-Benzisothiazol-3(2H)-one 2634-33-5	Workers	inhalation	Long term exposure - systemic effects		6,81 mg/m ³	
1,2-Benzisothiazol-3(2H)-one 2634-33-5	Workers	dermal	Long term exposure -		0,966 mg/kg	

			systemic effects			
1,2-Benzisothiazol-3(2H)-one 2634-33-5	General population	inhalation	Long term exposure - systemic effects		1,2 mg/m3	
1,2-Benzisothiazol-3(2H)-one 2634-33-5	General population	dermal	Long term exposure - systemic effects		0,345 mg/kg	
Pyrrithione zinc 13463-41-7	Workers	dermal	Long term exposure - systemic effects		0,01 mg/kg	
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9	Workers	inhalation	Long term exposure - local effects		0,02 mg/m3	
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9	Workers	inhalation	Acute/short term exposure - local effects		0,04 mg/m3	
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9	General population	inhalation	Long term exposure - local effects		0,02 mg/m3	
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9	General population	inhalation	Acute/short term exposure - local effects		0,04 mg/m3	
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9	General population	oral	Long term exposure - systemic effects		0,09 mg/kg	
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9	General population	oral	Acute/short term exposure - systemic effects		0,11 mg/kg	

Biological Exposure Indices:

None

8.2. Exposure controls:**Respiratory protection:**

Suitable breathing mask when there is inadequate ventilation.

Combination filter: ABEKP (EN 14387)

This recommendation should be matched to local conditions.

Hand protection:

In the case of longer contact protective gloves made from nitrile rubber are recommended according to EN 374.

material thickness > 0.1 mm

Perforation time > 30 minutes

In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, product compatibility, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. The information provided by the manufacturers and given in the relevant trade association regulations for industrial safety must always be observed. We recommend that a hand care plan is drawn up in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

Eye protection:

Goggles which can be tightly sealed.

Protective eye equipment should conform to EN166.

Skin protection:

Suitable protective clothing

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions.

Personal protective equipment should conform to the relevant EN standard.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state	solid
Delivery form	paste
Colour	varied, according to coloration
Odor	characteristic
Explosive limits	Not applicable, Product is a solid.
Flash point	Not applicable, Product is a solid.
pH (20 °C (68 °F); Conc.: 100 % product)	7,5 - 8,5 no method
Viscosity (kinematic)	Not applicable, Product is a solid.
Solubility (qualitative) (23 °C (73.4 °F); Solvent: Water)	practically insoluble in water -hydraulically setting at influence of water
Density (20 °C (68 °F))	1,548 - 1,892 g/cm3 no method
Relative vapour density:	Not applicable, Product is a solid.

9.2. Other information

Other information not applicable for this product

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.

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

Acute oral toxicity:

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

Hazardous substances CAS-No.	Value type	Value	Species	Method
Quartz (SiO ₂) respirable particulates (RCS) >=10% 14808-60-7	LD50	> 22.500 mg/kg	rat	not specified
Titanium dioxide 13463-67-7	LD50	> 5.000 mg/kg	rat	OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure)
Chromium (III) oxide 1308-38-9	LD50	> 5.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Chrome antimony titanium buff rutile 68186-90-3	LD50	> 10,000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Bismuth vanadium tetraoxide 14059-33-7	LD50	> 5.000 mg/kg	rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
trizinc bis(orthophosphate) 7779-90-0	LD50	> 5.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Amines, C16-18 and C16- 18-unsatd. alkyl 1213789-63-9	LD50	1.689 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
3-iodo-2-propynyl butylcarbamate 55406-53-6	LD50	1.470 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
1,2-Benzisothiazol-3(2H)- one 2634-33-5	LD50	490 mg/kg	rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	LD50	1.208 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
terbutryn 886-50-0	LD50	1.000 - 1.470 mg/kg	rat	not specified
terbutryn 886-50-0	Acute toxicity estimate (ATE)	1.000 mg/kg		Expert judgement
pyrithione zinc 13463-41-7	Acute toxicity estimate (ATE)	221 mg/kg		Expert judgement
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	LD50	66 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
2-Octyl-2H-isothiazol-3- one 26530-20-1	Acute toxicity estimate (ATE)	125 mg/kg		Expert judgement

Acute dermal toxicity:

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

Hazardous substances CAS-No.	Value type	Value	Species	Method
Quartz (SiO ₂) respirable particulates (RCS) >=10% 14808-60-7	LD50	> 5.000 mg/kg	rat	not specified
Amines, C16-18 and C16- 18-unsatd. alkyl 1213789-63-9	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
3-iodo-2-propynyl butylcarbamate 55406-53-6	LD50	> 2.000 mg/kg	rabbit	EPA OPP 81-2 (Acute Dermal Toxicity)
1,2-Benzisothiazol-3(2H)- one 2634-33-5	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	LD50	1.800 mg/kg	rabbit	EPA OPP 81-2 (Acute Dermal Toxicity)
terbutryn 886-50-0	LD50	> 10.200 mg/kg	rabbit	not specified
pyrithione zinc 13463-41-7	LD50	> 2.000 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)
2-Octyl-2H-isothiazol-3- one 26530-20-1	Acute toxicity estimate (ATE)	311 mg/kg		Expert judgement

Acute inhalative toxicity:

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

Hazardous substances CAS-No.	Value type	Value	Test atmosphere	Exposure time	Species	Method
Titanium dioxide 13463-67-7	LC50	> 6,82 mg/l	dust	4 h	rat	not specified
Chromium (III) oxide 1308-38-9	LC50	> 5,41 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
Bismuth vanadium tetraoxide 14059-33-7	LC50	> 5,15 mg/l	dust/mist	4 h	rat	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)
3-iodo-2-propynyl butylcarbamate 55406-53-6	LC50	0,68 mg/l	dust/mist	4 h	rat	equivalent or similar to 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)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	LC50	0,5 - 1 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	Acute toxicity estimate (ATE)	0,5 mg/l	dust/mist			Expert judgement
terbutryn 886-50-0	LC50	> 8 mg/l	dust/mist	4 h	rat	not specified
pyrithione zinc 13463-41-7	Acute toxicity estimate (ATE)	0,14 mg/l	dust/mist	4 h		Expert judgement
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)
2-Octyl-2H-isothiazol-3- one 26530-20-1	Acute toxicity estimate (ATE)	0,27 mg/l	dust/mist	4 h		Expert judgement

Skin corrosion/irritation:

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

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Titanium dioxide 13463-67-7	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Chromium (III) oxide 1308-38-9	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
trizinc bis(orthophosphate) 7779-90-0	not irritating			Expert judgement
Amines, C16-18 and C16- 18-unsatd. alkyl 1213789-63-9	corrosive	1 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
3-iodo-2-propynyl butylcarbamate 55406-53-6	slightly irritating	4 h	rabbit	EPA OPP 81-5 (Acute Dermal Irritation)
1,2-Benzisothiazol-3(2H)- one 2634-33-5	moderately irritating	4 h	rabbit	EPA OPP 81-5 (Acute Dermal Irritation)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
pyrithione zinc 13463-41-7	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	corrosive	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

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

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Titanium dioxide 13463-67-7	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Chromium (III) oxide 1308-38-9	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
trizinc bis(orthophosphate) 7779-90-0	slightly irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
3-iodo-2-propynyl butylcarbamate 55406-53-6	Category 1 (irreversible effects on the eye)		rabbit	EPA OPP 81-4 (Acute Eye Irritation)
1,2-Benzisothiazol-3(2H)- one 2634-33-5	corrosive	3 h	rabbit	EPA OPP 81-4 (Acute Eye Irritation)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
pyrithione zinc 13463-41-7	Category 1 (irreversible effects on the eye)		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	Category 1 (irreversible effects on the eye)		rabbit	not specified

Respiratory or skin sensitization:

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

Hazardous substances CAS-No.	Result	Test type	Species	Method
Titanium dioxide 13463-67-7	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Titanium dioxide 13463-67-7	not sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Chromium (III) oxide 1308-38-9	not sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
trizinc bis(orthophosphate) 7779-90-0	not sensitising			not specified
3-iodo-2-propynyl butylcarbamate 55406-53-6	sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
1,2-Benzisothiazol-3(2H)- one 2634-33-5	sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
1,2-Benzisothiazol-3(2H)- one 2634-33-5	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	sensitising	Guinea pig maximisation test	guinea pig	EU Method B.6 (Skin Sensitisation)
terbutryn 886-50-0	sensitising		mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
pyrithione zinc 13463-41-7	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	sensitising	Mouse local lymphnode assay (LLNA)	mouse	not specified
2-Octyl-2H-isothiazol-3- one 26530-20-1	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

Germ cell mutagenicity:

The mixture is classified based on 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
Titanium dioxide 13463-67-7	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Titanium dioxide 13463-67-7	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Titanium dioxide 13463-67-7	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Titanium dioxide 13463-67-7	negative	in vitro mammalian cell micronucleus test	without		equivalent or similar to OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test)
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)
3-iodo-2-propynyl butylcarbamate 55406-53-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		EPA OPP 84-2 (Mutagenicity Testing)
3-iodo-2-propynyl butylcarbamate 55406-53-6	negative		with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
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)
1,2-Benzisothiazol-3(2H)- one 2634-33-5	positive without metabolic activation	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	positive	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
pyrithione zinc 13463-41-7	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
pyrithione zinc 13463-41-7	positive	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
pyrithione zinc 13463-41-7	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	ambiguous	bacterial reverse mutation assay (e.g Ames test)	with and without		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	positive	in vitro mammalian chromosome aberration test	with and without		EPA OPP 84-2 (Mutagenicity Testing)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	positive	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	negative	DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro	not applicable		OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro)

Carcinogenicity

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

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Sex	Method
Titanium dioxide 13463-67-7	not carcinogenic	oral: feed	103 w daily	rat	male/female	not specified
3-iodo-2-propynyl butylcarbamate 55406-53-6	not carcinogenic	oral: unspecified	104 w daily	rat	male/female	not specified
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	not carcinogenic	oral: gavage	104 w daily	rat	male/female	EPA OPP 83-2 (Carcinogenicity)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	not carcinogenic	oral: drinking water	2 y daily	rat	male/female	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

Reproductive toxicity:

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

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
Titanium dioxide 13463-67-7	NOAEL P $\geq$ 1.000 mg/kg NOAEL F1 $\geq$ 1.000 mg/kg	one- generation study	oral: feed	rat	OECD Guideline 443 (Extended One-Generation Reproductive Toxicity Study)
3-iodo-2-propynyl butylcarbamate 55406-53-6	NOAEL P 300 ppm NOAEL F1 > 750 ppm NOAEL F2 > 750 ppm	two- generation study	oral: gavage	rat	equivalent or similar to OECD Guideline 416 (Two- Generation Reproduction Toxicity Study)
1,2-Benzisothiazol-3(2H)- one 2634-33-5	NOAEL P 112 mg/kg NOAEL F1 56,6 mg/kg NOAEL F2 56,6 mg/kg	Two generation study	oral: feed	rat	EPA OPPTS 870.3800 (Reproduction and Fertility Effects)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	NOAEL P 0,7 mg/kg NOAEL F1 0,7 mg/kg	Two generation study	oral: gavage	rat	EPA OPPTS 870.3800 (Reproduction and Fertility Effects)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	NOAEL P 30 ppm NOAEL F1 300 ppm NOAEL F2 300 ppm	Two generation study	oral: drinking water	rat	OECD Guideline 416 (Two- Generation Reproduction Toxicity Study)

STOT-single exposure:

No data available.

STOT-repeated exposure::

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

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
Titanium dioxide 13463-67-7	NOAEL > 1.000 mg/kg	oral: gavage	92 d daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Chromium (III) oxide 1308-38-9	NOAEL > 2.000 mg/kg	oral: feed	90 d 5 d/w	rat	not specified
Bismuth vanadium tetraoxide 14059-33-7	NOAEL 0,0001 mg/l	inhalation: dust	90 d 6 h/working day	rat	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
3-iodo-2-propynyl butylcarbamate 55406-53-6	NOAEL 0,00116 mg/l	inhalation	90 d	rat	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
1,2-Benzisothiazol-3(2H)- one 2634-33-5	NOAEL 150 mg/kg	oral: gavage	28 days daily	rat	OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)
1,2-Benzisothiazol-3(2H)- one 2634-33-5	NOAEL 69 mg/kg	oral: feed	90 days daily	rat	EPA OPP 82-1 (90-Day Oral Toxicity)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	NOAEL 0,5 mg/kg	oral: gavage	90 d	rat	EPA OTS 798.2650 (90- Day Oral Toxicity in Rodents)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	NOAEL 5 mg/kg	dermal	90 d daily	rat	EPA OPP 82-3 (Subchronic Dermal Toxicity 90 Days)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	NOAEL 0,0011 mg/l	inhalation: aerosol	90 d 6 h/d 5 d/w	rat	EPA OPP 82-4 (90-Day Inhalation Toxicity)
pyrithione zinc 13463-41-7	NOAEL 0,5 mg/kg	oral: gavage	104 w daily	rat	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	NOAEL 16,3 mg/kg	oral: drinking water	90 d daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	NOAEL 0.34 mg/m3	inhalation: aerosol	90 d 6 h/d, 5 d/w	rat	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	NOAEL 2,625 mg/kg	dermal	90 d 6 h/d	rat	EPA OPP 82-3 (Subchronic Dermal Toxicity 90 Days)

Aspiration hazard:

The mixture is classified based on Viscosity data.

Hazardous substances CAS-No.	Viscosity (kinematic) Value	Temperature	Method	Remarks
Amines, C16-18 and C16- 18-unsatd. alkyl 1213789-63-9	5,25 mm2/s	40 °C		

11.2 Information on other hazards

not applicable

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 calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Titanium dioxide 13463-67-7	LC50	Toxicity > Water solubility	48 h	Leuciscus idus	OECD Guideline 203 (Fish, Acute Toxicity Test)
Chromium (III) oxide 1308-38-9	LC50	Toxicity > Water solubility	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)])
Chromium (III) oxide 1308-38-9	NOEC	Toxicity > Water solubility	30 d	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 210 (fish early lite stage toxicity test)
Chrome antimony titanium buff rutile 68186-90-3	LC50	> 10.000 mg/l	96 h	Leuciscus idus	DIN 38412-15
Bismuth vanadium tetraoxide 14059-33-7	LC50	Toxicity > Water solubility	96 h	not specified	OECD Guideline 203 (Fish, Acute Toxicity Test)
trizinc bis(orthophosphate) 7779-90-0	LC50	0,333 mg/l	96 h	Oncorhynchus mykiss	other guideline:
Amines, C16-18 and C16-18- unsatd. alkyl 1213789-63-9	LC50	0,06 mg/l	96 h	Pimephales promelas	EPA OPPTS 850.1085 (Fish Acute Toxicity Test mitigated by humic acid)
3-iodo-2-propynyl butylcarbamate 55406-53-6	LC50	0,067 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
3-iodo-2-propynyl butylcarbamate 55406-53-6	NOEC	0,0084 mg/l	35 d	Pimephales promelas	OECD Guideline 210 (fish early lite stage toxicity test)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	LC50	2,15 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (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)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	LC50	0,007 mg/l	96 h	Oncorhynchus mykiss	EPA OPP 72-1 (Fish Acute Toxicity Test)
terbutryn 886-50-0	LC50	1,9 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
terbutryn 886-50-0	NOEC	0,073 mg/l	28 d	Pimephales promelas	OECD Guideline 210 (fish early lite stage toxicity test)
pyrithione zinc 13463-41-7	LC50	0,0026 mg/l	96 h	Pimephales promelas	EPA OPP 72-1 (Fish Acute Toxicity Test)
pyrithione zinc 13463-41-7	NOEC	0,00112 mg/l	32 d	Pimephales promelas	OECD Guideline 210 (fish early lite stage toxicity 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 lite stage toxicity test)
2-Octyl-2H-isothiazol-3-one 26530-20-1	LC50	0,036 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
2-Octyl-2H-isothiazol-3-one 26530-20-1	NOEC	0,022 mg/l	21 d	Oncorhynchus mykiss	OECD Guideline 210 (fish early lite stage toxicity test)

Toxicity (Daphnia):

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

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Titanium dioxide	EC50	Toxicity > Water	48 h	Daphnia magna	OECD Guideline 202

13463-67-7		solubility			(Daphnia sp. Acute Immobilisation Test)
Chromium (III) oxide 1308-38-9	LC50	Toxicity > Water solubility	48 h	Ceriodaphnia dubia	other guideline:
Chrome antimony titanium buff rutile 68186-90-3	EC50	> 100 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Bismuth vanadium tetraoxide 14059-33-7	EC50	Toxicity > Water solubility	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
trizinc bis(orthophosphate) 7779-90-0	EC50	1 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Amines, C16-18 and C16-18-unsatd. alkyl 1213789-63-9	EC50	0,98 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
3-iodo-2-propynyl butylcarbamate 55406-53-6	EC50	0,65 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	EC50	2,9 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	EC50	0,022 mg/l	48 h	Daphnia magna	EPA OPP 72-2 (Aquatic Invertebrate Acute Toxicity Test)
terbutryn 886-50-0	EC50	6,4 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
pyrithione zinc 13463-41-7	EC50	0,0063 mg/l	96 h	Americamysis bahia	EPA OPP 72-3 (Estuarine/Marine Fish, Mollusk, or Shrimp Acute Toxicity 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)
2-Octyl-2H-isothiazol-3-one 26530-20-1	EC50	0,42 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 calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Titanium dioxide 13463-67-7	NOEC	Toxicity > Water solubility	21 d	Daphnia magna	OECD Guideline 202 (Daphnia sp. Chronic Immobilisation Test)
Chromium (III) oxide 1308-38-9	NOEC	Toxicity > Water solubility	21 d	Daphnia magna	other guideline:
Amines, C16-18 and C16-18-unsatd. alkyl 1213789-63-9	NOEC	0,013 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
3-iodo-2-propynyl butylcarbamate 55406-53-6	NOEC	0,05 mg/l	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)
terbutryn 886-50-0	NOEC	0,05 mg/l	21 day	Daphnia	OECD 211 (Daphnia magna, Reproduction Test)
pyrithione zinc 13463-41-7	NOEC	0,0022 mg/l	21 d	Daphnia magna	EPA OPP 72-4 (Fish Early Life-Stage/Aquatic Invert.Life-Cycle Studies)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	NOEC	0,0036 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
2-Octyl-2H-isothiazol-3-one 26530-20-1	NOEC	0,0016 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

Toxicity (Algae):

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

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Titanium dioxide 13463-67-7	EC50	Toxicity > Water solubility	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Titanium dioxide 13463-67-7	NOEC	Toxicity > Water solubility	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Chromium (III) oxide 1308-38-9	EC50	Toxicity > Water solubility	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Chromium (III) oxide 1308-38-9	EC10	Toxicity > Water solubility	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	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)
Bismuth vanadium tetraoxide 14059-33-7	EC50	Toxicity > Water solubility	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Bismuth vanadium tetraoxide 14059-33-7	NOEC	Toxicity > Water solubility	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
trizinc bis(orthophosphate) 7779-90-0	NOEC	0,047 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
trizinc bis(orthophosphate) 7779-90-0	IC50	0,268 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Amines, C16-18 and C16-18- unsatd. alkyl 1213789-63-9	EC50	0,46 mg/l	72 h	Desmodesmus subspicatus (reported as Scenedesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Amines, C16-18 and C16-18- unsatd. alkyl 1213789-63-9	NOEC	0,15 mg/l	72 h	Desmodesmus subspicatus (reported as Scenedesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
3-iodo-2-propynyl butylcarbamate 55406-53-6	EC50	0,053 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
3-iodo-2-propynyl butylcarbamate 55406-53-6	NOEC	0,0046 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	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	0,0403 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	EC50	0,46 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	NOEC	0,08 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
terbutryn 886-50-0	EC50	0,0067 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
terbutryn 886-50-0	NOEC	0,0005 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
pyrithione zinc 13463-41-7	EC50	0,0006 mg/l	48 h	Skeletonema costatum	EPA OPP 123-3 (Algal Toxicity, Tiers I and II)
pyrithione zinc 13463-41-7	NOEC	0,00004 mg/l	48 h	Skeletonema costatum	EPA OPP 123-3 (Algal Toxicity, Tiers I and II)
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)
2-Octyl-2H-isothiazol-3-one 26530-20-1	EC50	0,00129 mg/l	48 h	Navicula pelliculosa	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-Octyl-2H-isothiazol-3-one 26530-20-1	EC10	0,000224 mg/l	48 h	Navicula pelliculosa	OECD Guideline 201 (Alga, Growth Inhibition Test)

Toxicity to microorganisms

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

Hazardous substances	Value	Value	Exposure time	Species	Method
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CAS-No.	type				
Titanium dioxide 13463-67-7	EC0	Toxicity > Water solubility	24 h	Pseudomonas fluorescens	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)
Chrome antimony titanium buff rutile 68186-90-3	EC10	> 10.000 mg/l	30 min		not specified
Bismuth vanadium tetraoxide 14059-33-7	EC10	Toxicity > Water solubility	16 h	Pseudomonas putida	ISO 10712: Determination of the inhibitory effect of water constituents on bacteria (Pseudomonas cell inhibition test)
trizinc bis(orthophosphate) 7779-90-0	EC0	0,69 mg/l	30 min	Pseudomonas putida	DIN 38412, part 27 (Bacterial oxygen consumption test)
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)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	EC0	3,2 mg/l	30 min	Pseudomonas putida	DIN 38412, part 27 (Bacterial oxygen consumption test)
pyrithione zinc 13463-41-7	NOEC	0,1 mg/l	3 h	activated sludge	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
Amines, C16-18 and C16-18-unsatd. alkyl 1213789-63-9	readily biodegradable	aerobic	66 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
3-iodo-2-propynyl butylcarbamate 55406-53-6	not readily biodegradable.	aerobic	25 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	Rapidly biodegradable	aerobic	80 %	21 d	OECD Guideline 303 A (Simulation Test Aerobic Sewage Treatment. A: Activated Sludge Units)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	readily biodegradable	aerobic	> 60 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	inherently biodegradable	aerobic	89 - 92 %	28 d	EU Method C.9 (Biodegradation: Zahn-Wellens Test)
terbutryn 886-50-0	not readily biodegradable.		0 %		OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
pyrithione zinc 13463-41-7	not readily biodegradable.	aerobic	39 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
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)
2-Octyl-2H-isothiazol-3-one 26530-20-1	not readily biodegradable.	aerobic	35 %	21 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
Bismuth vanadium tetraoxide 14059-33-7	< 1,2	42 d		Oryzias latipes	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)
Amines, C16-18 and C16-18- unsatd. alkyl 1213789-63-9	173			calculation	not specified
3-iodo-2-propynyl butylcarbamate 55406-53-6	3,3 - 4,5			Carassius sp.	not specified
1,2-Benzisothiazol-3(2H)-one 2634-33-5	6,62	56 d		not specified	other guideline:
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	< 100			not specified	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)
pyrithione zinc 13463-41-7	8,28	30 d		Crassostrea virginica	OECD Guideline 305 E (Bioaccumulation: 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
Chromium (III) oxide 1308-38-9	2,97		not specified
Amines, C16-18 and C16-18-unsatd. alkyl 1213789-63-9	8,35	20 °C	EU Method A.8 (Partition Coefficient)
3-iodo-2-propynyl butylcarbamate 55406-53-6	2,81		not specified
1,2-Benzisothiazol-3(2H)-one 2634-33-5	0,7	20 °C	EU Method A.8 (Partition Coefficient)
terbutryn 886-50-0	3,19		OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
pyrithione zinc 13463-41-7	0,9	25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
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)
2-Octyl-2H-isothiazol-3-one 26530-20-1	2,9		OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

12.5. Results of PBT and vPvB assessment

Hazardous substances CAS-No.	PBT / vPvB
Quartz (SiO ₂) respirable particulates (RCS) >=10% 14808-60-7	According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not be conducted for inorganic substances.
Titanium dioxide 13463-67-7	According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not be conducted for inorganic substances.
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.
Chrome antimony titanium buff rutile 68186-90-3	According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not be conducted for inorganic substances.
Bismuth vanadium tetraoxide 14059-33-7	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
trizinc bis(orthophosphate) 7779-90-0	According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not be conducted for inorganic substances.
Amines, C16-18 and C16-18-unsatd. alkyl 1213789-63-9	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
3-iodo-2-propynyl butylcarbamate 55406-53-6	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.
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
pyrithione zinc 13463-41-7	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.
2-Octyl-2H-isothiazol-3-one 26530-20-1	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

12.6. Endocrine disrupting properties

not applicable

12.7. 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

080119

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. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

No information available:

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

Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009):

Not applicable

Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):

Not applicable

Persistent organic pollutants (Regulation (EU) 2019/1021):

Not applicable

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

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.
 H311 Toxic in contact with skin.
 H312 Harmful 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.
 H319 Causes serious eye irritation.
 H330 Fatal if inhaled.
 H331 Toxic if inhaled.
 H335 May cause respiratory irritation.
 H351 Suspected of causing cancer.
 H360D May damage the unborn child.
 H372 Causes damage to organs through prolonged or repeated exposure.
 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.

ED:	Substance identified as having endocrine disrupting properties
EU OEL:	Substance with a Union workplace exposure limit
EU EXPLD 1:	Substance listed in Annex I, Reg (EC) No. 2019/1148
EU EXPLD 2	Substance listed in Annex II, Reg (EC) No. 2019/1148
SVHC:	Substance of very high concern (REACH Candidate List)
PBT:	Substance fulfilling persistent, bioaccumulative and toxic criteria
PBT/vPvB:	Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very bioaccumulative criteria
vPvB:	Substance fulfilling very persistent and very bioaccumulative criteria

Further information:

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Product is intended for professional use.

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