

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

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SDS No.: 687093

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UniBond Grout Reviver ice white new

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

#### 1.1. Product identifier

UniBond Grout Reviver ice white new

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

Intended use:

Joint colour

ua-productsafety.uk@henkel.com

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):

Chronic hazards to the aquatic environment H411 Toxic to aquatic life with long lasting effects.

Category 2

### 2.2. Label elements

#### Label elements (CLP):

Hazard pictogram:



**Hazard statement:** H411 Toxic to aquatic life with long lasting effects.

**Supplemental information** Contains: Isothiazolinone mixture 3:1 (CIT/MIT) May produce an allergic reaction.

**Precautionary statement:** P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

**Precautionary statement:** P262 Do not get in eyes, on skin, or on clothing.

**Prevention** P273 Avoid release to the environment.

**Precautionary statement:** P501 Dispose of contents/container in accordance with national regulation.

Disposal

### 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 >= 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
bronded 52-51-7 200-143-0 01-2119980938-15	0,1-< 1 %	Acute Tox. 3, Inhalation, H331 Acute Tox. 4, Dermal, H312 Acute Tox. 3, Oral, H301 STOT SE 3, H335 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	M acute = 10 ===== inhalation:ATE = 0,5881 mg/l;dust/mist	
terbutryn 886-50-0 212-950-5	0,001-< 0,025 % (10 ppm-< 250 ppm)	Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Acute Tox. 4, Oral, H302 Skin Sens. 1B, H317	Skin Sens. 1B; H317; C >= 3 %  =====  M acute = 100 M chronic = 100 =====  oral:ATE = 1.000 mg/kg	
pyrithione zinc 13463-41-7 236-671-3 01-2119511196-46	0,001-< 0,01 % (10 ppm-<100 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	

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 self-contained breathing apparatus.

Wear protective equipment.

### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Wear protective equipment.

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 mechanically.

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 skin and eye contact.

Hygiene measures:

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

# 7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, dry place.

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

### 7.3. Specific end use(s)

Joint colour

# **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

# **Occupational Exposure Limits**

Valid for

Great Britain

Ingredient [Regulated substance]	redient [Regulated substance] ppm mg/m³ Value type		Short term exposure limit category / Remarks	Regulatory list	
Calcium carbonate 471-34-1 [CALCIUM CARBONATE, INHALABLE DUST]		10	Time Weighted Average (TWA):		EH40 WEL
Calcium carbonate 471-34-1 [CALCIUM CARBONATE, RESPIRABLE DUST]		4	Time Weighted Average (TWA):		EH40 WEL
Calcium carbonate 471-34-1 [LIMESTONE, RESPIRABLE MARBLE, RESPIRABLE]		4	Time Weighted Average (TWA):		EH40 WEL
Calcium carbonate 471-34-1 [LIMESTONE, TOTAL INHALABLE MARBLE, TOTAL INHALABLE]		10	Time Weighted Average (TWA):		EH40 WEL
Calcium carbonate 471-34-1 [Dust, inhalable dust]		10	Time Weighted Average (TWA):		EH40 WEL
Calcium carbonate 471-34-1 [Dust, respirable dust]		4	Time Weighted Average (TWA):		EH40 WEL
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
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
Talc (Mg3H2(SiO3)4) 14807-96-6 [TALC, RESPIRABLE DUST]		1	Time Weighted Average (TWA):		EH40 WEL

# **Occupational Exposure Limits**

Valid for

Ireland

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
Calcium carbonate 471-34-1 [CALCIUM CARBONATE]		4	Time Weighted Average (TWA):		IR_OEL
Calcium carbonate 471-34-1 [CALCIUM CARBONATE]		10	Time Weighted Average (TWA):		IR_OEL

Calcium carbonate 471-34-1 [DUSTS NON-SPECIFIC]	4	Time Weighted Average (TWA):	IR_OEL
Calcium carbonate 471-34-1 [DUSTS NON-SPECIFIC]	10	Time Weighted Average (TWA):	IR_OEL
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
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
Talc (Mg3H2(SiO3)4) 14807-96-6 [TALC]	10	Time Weighted Average (TWA):	IR_OEL
Talc (Mg3H2(SiO3)4) 14807-96-6 [TALC]	0,8	Time Weighted Average (TWA):	IR_OEL

# **Predicted No-Effect Concentration (PNEC):**

Name on list	Environmental Compartment	Exposure period	Value				Remarks
	Compartment	periou	mg/l	ppm	mg/kg	others	
bronopol	aqua		0,01 mg/l				
52-51-7	(freshwater)		, ,				
bronopol	aqua (marine		0,0008				
52-51-7	water)		mg/l				
bronopol	aqua		0,0025				
52-51-7	(intermittent		mg/l				
	releases)						
bronopol	sewage		0,43 mg/l				
52-51-7	treatment plant						
	(STP)						
bronopol	sediment				0,041		
52-51-7	(freshwater)				mg/kg		
bronopol	sediment				0,00328		
52-51-7	(marine water)				mg/kg		
bronopol	Soil				0,5 mg/kg		
52-51-7							
Pyrithione zinc	sewage		0,01 mg/l				
13463-41-7	treatment plant						
	(STP)						
Pyrithione zinc	sediment				0,009		
13463-41-7	(freshwater)				mg/kg		
Pyrithione zinc	sediment				0,009		
13463-41-7	(marine water)				mg/kg		
Pyrithione zinc 13463-41-7	Soil				1,02 mg/kg		
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-	aqua		0,00339				
methyl-, mixt. with 2-methyl-3(2H)-	(freshwater)		mg/l				
isothiazolone	(Hessi water)		111.6/1				
55965-84-9							
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-	aqua (marine		0,00339				
methyl-, mixt. with 2-methyl-3(2H)-	water)		mg/l				
isothiazolone	,						
55965-84-9							
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-	sewage		0,23 mg/l				
methyl-, mixt. with 2-methyl-3(2H)-	treatment plant						
isothiazolone	(STP)						
55965-84-9							
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-	sediment				0,027		
methyl-, mixt. with 2-methyl-3(2H)-	(freshwater)				mg/kg		
isothiazolone							
55965-84-9	1						
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-	sediment				0,027		
methyl-, mixt. with 2-methyl-3(2H)-	(marine water)				mg/kg		
isothiazolone							
55965-84-9	G 7		-		0.01 "		
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-	Soil				0,01 mg/kg		
methyl-, mixt. with 2-methyl-3(2H)-							
isothiazolone							
55965-84-9			0.00222	-			
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-	aqua		0,00339				
methyl-, mixt. with 2-methyl-3(2H)-	(intermittent		mg/l				
isothiazolone	releases)						
55965-84-9		L					

# **Derived No-Effect Level (DNEL):**

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
bronopol	Workers	dermal	Long term	Time	2 mg/kg	
52-51-7			exposure -			
1 1	C 1	1 1	systemic effects		0.7 //	
bronopol 52-51-7	General population	dermal	Long term exposure -		0,7 mg/kg	
32-31-7	population		systemic effects			
bronopol	General	oral	Long term		0,18 mg/kg	
52-51-7	population		exposure -			
			systemic effects			
bronopol 52-51-7	Workers	inhalation	Long term exposure -		3,5 mg/m3	
32-31-7			systemic effects			
bronopol	General	inhalation	Long term		0,6 mg/m3	
52-51-7	population		exposure -		, ,	
		1	systemic effects		10.5	
bronopol 52-51-7	Workers	inhalation	Acute/short term exposure -		10,5 mg/m3	
32-31-7			systemic effects			
bronopol	Workers	inhalation	Long term		2,5 mg/m3	
52-51-7			exposure - local		, ,	
			effects			
bronopol	Workers	inhalation	Acute/short term exposure - local		2,5 mg/m3	
52-51-7			effects			
bronopol	Workers	dermal	Acute/short term		6 mg/kg	
52-51-7			exposure -		- 8 8	
			systemic effects			
bronopol	Workers	dermal	Long term		0,008 mg/cm2	
52-51-7			exposure - local effects			
bronopol	Workers	dermal	Acute/short term		0,008 mg/cm2	
52-51-7	Workers	dermar	exposure - local		0,000 mg/cm2	
			effects			
bronopol	General	dermal	Long term		0,004 mg/cm2	
52-51-7	population		exposure - local effects			
bronopol	General	dermal	Acute/short term		0,004 mg/cm2	
52-51-7	population	dermar	exposure - local		0,004 mg/cm2	
			effects			
bronopol	General	dermal	Acute/short term		2,1 mg/kg	
52-51-7	population		exposure - systemic effects			
bronopol	General	inhalation	Long term		0,6 mg/m3	
52-51-7	population	imidiation	exposure - local		o,o mg ms	
	1 1		effects			
bronopol	General	inhalation	Acute/short term		1,8 mg/m3	
52-51-7	population		exposure - systemic effects			
bronopol	General	inhalation	Acute/short term		0,6 mg/m3	
52-51-7	population	imidiation	exposure - local		o,o mg ms	
			effects			
bronopol	General	oral	Acute/short term		0,5 mg/kg	
52-51-7	population		exposure -			
Pyrithione zinc	Workers	dermal	systemic effects Long term		0,01 mg/kg	
13463-41-7	orners	aciniai	exposure -		,,,, mg/kg	
			systemic effects			
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-	Workers	inhalation	Long term		0,02 mg/m3	
methyl-, mixt. with 2-methyl-3(2H)-isothiazolone			exposure - local effects			
			CHECIS			
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-	Workers	inhalation	Acute/short term		0,04 mg/m3	
methyl-, mixt. with 2-methyl-3(2H)-			exposure - local			
isothiazolone			effects			
55965-84-9 Mixture, 3(2H)-Isothiazolone, 5-chloro-2-	General	inhalation	Long torm	+	0.02 mg/m²	
methyl-, mixt. with 2-methyl-3(2H)-	population	inhalation	Long term exposure - local		0,02 mg/m3	
isothiazolone	Population		effects			
55965-84-9						
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-	General	inhalation	Acute/short term		0,04 mg/m3	
methyl-, mixt. with 2-methyl-3(2H)-	population		exposure - local			

isothiazolone 55965-84-9			effects		
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:

Ensure adequate ventilation.

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 > 480 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 liquid Delivery form paste Colour white Odor little intrinsic odour

рΗ 8 - 9

(20 °C (68 °F))

Viscosity, dynamic 19.600 cp Brookfield viscosity (LVT, RVT, HBT)

(Brookfield; Instrument: RVT; speed of rotation: 20 min-1; Spindle No: 5)

Density 1,45 - 1,55 g/cm3 no method

(20 °C (68 °F))

### 9.2. Other information

Other information not applicable for this product

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Reaction with acids: production of heat and carbon dioxide.

#### 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

See section reactivity.

### 10.6. Hazardous decomposition products

None known.

# **SECTION 11: Toxicological information**

### General toxicological information:

An allergic reaction cannot be excluded after repeated skin contact.

# 1.1 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	Value	Value	Species	Method
CAS-No.	type			
bronopol	LD50	193 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
52-51-7				
terbutryn	LD50	1.000 - 1.470	rat	not specified
886-50-0		mg/kg		
terbutryn	Acute	1.000 mg/kg		Expert judgement
886-50-0	toxicity			
	estimate			
	(ATE)			
pyrithione zinc	Acute	221 mg/kg		Expert judgement
13463-41-7	toxicity			
	estimate			
	(ATE)			
Isothiazolinone mixture	LD50	66 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
3:1 (CIT/MIT)				
55965-84-9				

### Acute dermal toxicity:

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

Hazardous substances	Value	Value	Species	Method
CAS-No.	type			
bronopol	LD50	1.600 mg/kg	rat	not specified
52-51-7				
terbutryn	LD50	> 10.200 mg/kg	rabbit	not specified
886-50-0				
pyrithione zinc	LD50	> 2.000 mg/kg	rat	EPA OPP 81-2 (Acute Dermal Toxicity)
13463-41-7				,
Isothiazolinone mixture	LD50	87,12 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)
3:1 (CIT/MIT)				` '
55965-84-9				

### 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	Value	Test atmosphere	Exposure time	Species	Method
bronopol 52-51-7	LC50	> 0,588 mg/l	dust/mist	4 h	rat	not specified
bronopol 52-51-7	LC100	1,14 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
bronopol 52-51-7	Acute toxicity estimate (ATE)	0,5881 mg/l	dust/mist	4 h		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)

### Skin corrosion/irritation:

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

Hazardous substances	Result	Exposure	Species	Method
CAS-No.		time		
bronopol	irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
52-51-7				, , , , , , , , , , , , , , , , , , ,
pyrithione zinc	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
13463-41-7				, ,
Isothiazolinone mixture	corrosive	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
3:1 (CIT/MIT)				, i
55965-84-9				

### Serious eye damage/irritation:

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

Hazardous substances	Result	Exposure	Species	Method
CAS-No.		time		
bronopol	highly		rabbit	Draize Test
52-51-7	irritating			
pyrithione zinc	Category 1		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
13463-41-7	(irreversible			
	effects on the			
	eye)			
Isothiazolinone mixture	Category 1		rabbit	not specified
3:1 (CIT/MIT)	(irreversible			
55965-84-9	effects on the			
	eye)			

### 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
bronopol 52-51-7	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (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

# 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
bronopol 52-51-7	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		not specified
bronopol 52-51-7	positive	in vitro mammalian chromosome aberration test	with and without		not specified
bronopol 52-51-7	negative	mammalian cell gene mutation assay	with and without		not specified
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)
bronopol 52-51-7	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
bronopol 52-51-7	negative	oral: gavage		rat	OECD Guideline 486 (Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells in vivo)
pyrithione zinc 13463-41-7	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	negative	oral: gavage		mouse	OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	negative	oral: feed		Drosophila melanogaster	OECD Guideline 477 (Genetic Toxicology: Sex-linked Recessive Lethal Test in Drosophila melanogaster)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	negative	oral: gavage		rat	OECD Guideline 486 (Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells in vivo)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	negative	oral: gavage		rat	EPA OPP 84-2 (Mutagenicity Testing)

# 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
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
bronopol 52-51-7	NOAEL P > 40 mg/kg NOAEL F1 > 40 mg/kg	One generation study	oral: gavage	rat	not specified
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
bronopol 52-51-7	NOAEL 7 mg/kg	oral: drinking water	104 w daily	rat	not specified
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:

No data available.

### 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	Value	Value	Exposure time	Species	Method
CAS-No.	type				
bronopol	LC50	41 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish,
52-51-7					Acute Toxicity Test)
bronopol	NOEC	21,5 mg/l	49 d	Oncorhynchus mykiss	OECD Guideline 210 (fish
52-51-7					early lite stage toxicity test)
terbutryn	LC50	1,9 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish,
886-50-0					Acute Toxicity Test)
terbutryn	NOEC	0,073 mg/l	28 d	Pimephales promelas	OECD Guideline 210 (fish
886-50-0					early lite stage toxicity test)
pyrithione zinc	LC50	0,0026 mg/l	96 h	Pimephales promelas	EPA OPP 72-1 (Fish Acute
13463-41-7					Toxicity Test)
pyrithione zinc	NOEC	0,00112 mg/l	32 d	Pimephales promelas	OECD Guideline 210 (fish
13463-41-7					early lite stage toxicity test)
Isothiazolinone mixture 3:1	LC50	0,22 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish,
(CIT/MIT)					Acute Toxicity Test)
55965-84-9					
Isothiazolinone mixture 3:1	NOEC	0,098 mg/l	28 d	Oncorhynchus mykiss	OECD Guideline 210 (fish
(CIT/MIT)					early lite stage toxicity test)
55965-84-9					

### 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
bronopol 52-51-7	EC50	1,4 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation 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)

## Chronic toxicity to aquatic invertebrates

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
CAS-No.	type				
bronopol	NOEC	0,27 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia
52-51-7					magna, Reproduction Test)
terbutryn	NOEC	0,05 mg/l	21 day	Daphnia	OECD 211 (Daphnia
886-50-0					magna, Reproduction Test)
pyrithione zinc	NOEC	0,0022 mg/l	21 d	Daphnia magna	EPA OPP 72-4 (Fish Early
13463-41-7					Life-Stage/Aquatic
					Invert.Life-Cyclcle Studies)
Isothiazolinone mixture 3:1	NOEC	0,0036 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia
(CIT/MIT)					magna, Reproduction Test)
55965-84-9					

### 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
bronopol 52-51-7	EC50	0,37 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
bronopol 52-51-7	NOEC	0,1 mg/l	72 h	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)

# 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
CAS-No.	type				
bronopol	EC50	43 mg/l	3 h	activated sludge	OECD Guideline 209
52-51-7					(Activated Sludge,
					Respiration Inhibition Test)
pyrithione zinc	NOEC	0,1 mg/l	3 h	activated sludge	OECD Guideline 209
13463-41-7					(Activated Sludge,
					Respiration Inhibition Test)
Isothiazolinone mixture 3:1	EC20	0,97 mg/l	3 h	activated sludge	OECD Guideline 209
(CIT/MIT)		_			(Activated Sludge,
55965-84-9					Respiration Inhibition Test)

### 12.2. Persistence and degradability

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
bronopol 52-51-7	readily biodegradable	aerobic	> 70 - 80 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
bronopol 52-51-7	not inherently biodegradable	aerobic	50 %	45 d	OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA 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)

# 12.3. Bioaccumulative potential

Hazardous substances CAS-No.	Bioconcentratio n factor (BCF)	Exposure time	Temperature	Species	Method
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	LogPow	Temperature	Method
CAS-No.	_	_	
bronopol	0,22	24 °C	EU Method A.8 (Partition Coefficient)
52-51-7			
terbutryn	3,19		OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC
886-50-0			Method)
pyrithione zinc	0,9	25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake
13463-41-7			Flask Method)
Isothiazolinone mixture 3:1	> -0,71 - 0,75	20 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC
(CIT/MIT)			Method)
55965-84-9			

#### 12.5. Results of PBT and vPvB assessment

Hazardous substances	PBT / vPvB	
CAS-No.		
bronopol	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very	
52-51-7	Bioaccumulative (vPvB) criteria.	
pyrithione zinc	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very	
13463-41-7	Bioaccumulative (vPvB) criteria.	
Isothiazolinone mixture 3:1 (CIT/MIT)	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very	
55965-84-9	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

170903

### **SECTION 14: Transport information**

#### 14.1. UN number

ADR	3082
RID	3082
ADN	3082
IMDG	3082
IATA	3082

### 14.2. UN proper shipping name

ADR ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(bromonitro propanediol, Terbutryn)

RID ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(bromonitro propanediol, Terbutryn)

ADN ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(bromonitro propanediol, Terbutryn)

IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(bromonitro propanediol, Terbutryn)

IATA Environmentally hazardous substance, liquid, n.o.s. (bromonitro

propanediol, Terbutryn)

#### 14.3. Transport hazard class(es)

ADR	ç
RID	g
ADN	g
IMDG	9
IATA	C

#### 14.4. Packing group

ADR	III
RID	III
ADN	III
IMDG	III
IATA	III

### 14.5. Environmental hazards

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	Marine pollutant
IATA	not applicable

### 14.6. Special precautions for user

not applicable
Tunnelcode:
not applicable
not applicable
not applicable
not applicable

The transport classifications in this section apply generally to packed and bulk goods alike. For containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5 kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), A197 (IATA), 2.10.2.7 (IMDG) may be applied, which can result in a deviation from the transport classification for packed goods.

### 14.7. Maritime transport in bulk according to IMO instruments

not applicable

# **SECTION 15: Regulatory information**

### 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

### **VOC Paints and Varnishes (EU):**

Regulatory Basis: Directive 2004/42/EC

Product (sub)category: A(l) Decorative effect coatings

max. VOC content: 30,00 g/l max. VOC content: 30,00 g/l

#### 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.

H310 Fatal 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.

H330 Fatal if inhaled.

H331 Toxic if inhaled.

H335 May cause respiratory irritation.

H360D May damage the unborn child.

H372 Causes 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:

EU EXPLD 1:

Substance with a Union workplace exposure limit

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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