

**Trade name:** Latitude XL**Product no.:** CE 114 C0253 UK**Current version :** 1.2.4, issued: 10.03.2022**Replaced version:** 1.2.3, issued: 15.02.2022**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name****Latitude XL****1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**Plant protection product for professional use. Agriculture.  
Fungicide**Uses advised against**

No data available.

**1.3 Details of the supplier of the safety data sheet****Address**Certis Europe B.V. - United Kingdom  
Suite 5, 3 Riverside  
Granta Park - Great Abington  
Cambridgeshire CB21 6AD  
United Kingdom

Telephone no. +44 (0) 1223 894 261

Fax no. +44 (0)1223 891210

e-mail info@certiseurope.co.uk - www.certiseurope.co.uk

**Advice on Safety Data Sheet**

certis@certiseurope.co.uk

**1.4 Emergency telephone number**

Carechem 24 GB: +44 870 190 6777

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**Aquatic Chronic 3; H412  
STOT RE 2; H373**Classification information**

Classification and labelling are based on toxicological studies performed on the product (mixture).

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

GHS08

**Signal word**

Warning

**Hazardous component(s) to be indicated on label:**

N-allyl-4,5-dimethyl- 2-(trimethylsilyl)thio-phene-3-carboxamide

**Hazard statement(s)**

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H373 May cause damage to organs through prolonged or repeated exposure  
 H412 Harmful to aquatic life with long lasting effects.

**Hazard statements (EU)**

EUH208 Contains methenamine 3-chloroallylochloride, 1,2-benzisothiazol-3(2H)-one, reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (3:1). May produce an allergic reaction.  
 EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

**Precautionary statement(s)**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P314 Get medical advice/attention if you feel unwell.  
 P501 Dispose of contents/ container to a licensed hazardous waste disposal contractor or collection site except for triple rinsed empty clean containers which can be disposed of as non-hazardous waste.

**Supplemental label elements**

UFI: 7Q99-F0WH-W00F-NW68

**2.3 Other hazards**

No data available.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not applicable. The product is not a substance.

**3.2 Mixtures****Chemical characterization**

Silthiofam 125g/l (FS)

**Hazardous ingredients**

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration
			%
1	<b>N-allyl-4,5-dimethyl- 2-(trimethylsilyl)thio-phene-3-carboxamide</b>		
	175217-20-6 605-752-9 616-233-00-1 -	STOT RE 2; H373 Aquatic Chronic 2; H411	>= 10.00 - < 25.00 wt%
2	<b>Sulfonated aromatic polymer, sodium salt</b>		
	- - - -	Eye Irrit. 2; H319 Aquatic Chronic 3; H412	< 5.00 wt%
3	<b>White mineral oil (petroleum)</b>		
	8042-47-5 232-455-8 - 01-2119487078-27	Asp. Tox. 1; H304	< 2.50 wt%
4	<b>2-Naphthalenesulfonic acid, 6-hydroxy-, monosodium salt, polymer with disodium sulfite, formaldehyde and methylphenol</b>		
	73003-46-0 - - -	Aquatic Chronic 3; H412	< 2.50 wt%
5	<b>methenamine 3-chloroallylochloride</b>		
	4080-31-3 223-805-0 - -	Acute Tox. 4; H302 Acute Tox. 3; H311 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 3; H412	< 0.50 wt%
6	<b>bronopol</b>		

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	52-51-7 200-143-0 603-085-00-8 01-2119980938-15	Acute Tox. 4*; H302 Acute Tox. 4*; H312 Aquatic Acute 1; H400 Eye Dam. 1; H318 Skin Irrit. 2; H315 STOT SE 3; H335	< 0.10	wt%
7	<b>1,2-benzisothiazol-3(2H)-one</b>			
	2634-33-5 220-120-9 613-088-00-6 01-2120761540-60	Acute Tox. 4*; H302 Aquatic Acute 1; H400 Eye Dam. 1; H318 Skin Irrit. 2; H315 Skin Sens. 1; H317	< 0.05	wt%
8	<b>reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (3:1)</b>			
	55965-84-9 - 613-167-00-5 01-2120764691-48	Acute Tox. 3; H301 Acute Tox. 2; H310 Acute Tox. 2; H330 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Eye Dam. 1; H318 Skin Corr. 1C; H314 Skin Sens. 1A; H317 EUH071	>= 0.0015 - < 0.06	wt%
9	<b>glycerol</b>			
	56-81-5 200-289-5 - 01-2119471987-18	-	>= 5.00 - < 10.00	wt%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

(\*, \*\*, \*\*\*, \*\*\*\*) Detailed explanation pls. refer to CLP regulation No. 1272/2008, annex VI, 1.2

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
6	-	-	M = 10	-
7	-	Skin Sens. 1; H317: C >= 0.05%	-	-
8	-	Skin Sens. 1A; H317: C >= 0.0015% Eye Irrit. 2; H319: C >= 0.06% Skin Irrit. 2; H315: C >= 0.06% Skin Corr. 1C; H314: C >= 0.6% Eye Dam. 1; H318: C >= 0.6%	M = 100	M = 100

**Acute toxicity estimate (ATE) values**

No	oral	dermal	inhalative
6	193 mg/kg bodyweight		
7	490 mg/kg bodyweight		
8	69 mg/kg bodyweight	141 mg/kg bodyweight	

**SECTION 4: First aid measures****4.1 Description of first aid measures****General information**

If medical advice is needed, have product container or label at hand.

**After inhalation**

Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

**After skin contact**

Take off contaminated clothing.

Wash with plenty of water.

If skin irritation occurs: Get medical advice/attention.

Contaminated work clothing should not be allowed out of the workplace.

Wash contaminated clothing before reuse.

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Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**After ingestion**

Rinse mouth. Call a POISON CENTER or doctor/physician.

**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**

No data available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

Alcohol-resistant foam; Carbon dioxide; Extinguishing powder; Water spray jet

**Unsuitable extinguishing media**

High power water jet

**5.2 Special hazards arising from the substance or mixture**

In the event of fire, the following can be released: Carbon dioxide (CO<sub>2</sub>); Carbon monoxide (CO)

**5.3 Advice for firefighters**

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations. Wear protective clothing.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation.

**For emergency responders**

No data available. Personal protective equipment (PPE) - see Section 8.

**6.2 Environmental precautions**

Do not discharge into the drains/surface waters/groundwater. Do not discharge uncontrolled into the subsoil/soil.

**6.3 Methods and material for containment and cleaning up**

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). When collected, handle material as described under the section heading "Disposal considerations".

**6.4 Reference to other sections**

Information regarding waste disposal, see section 13. Information regarding personal protective measures, see section 8. Information regarding safe handling, see section 7.

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

No special measures necessary if stored and handled as prescribed. Provide good ventilation at the work area (local exhaust ventilation, if necessary).

**General protective and hygiene measures**

Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Do not eat, drink or smoke during work time. Remove soiled or soaked clothing immediately. Do not inhale vapours.

**Advice on protection against fire and explosion**

No special measures necessary.

**7.2 Conditions for safe storage, including any incompatibilities**

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Keep container tightly closed and dry in a cool, well-ventilated place. Keep from freezing. Protect from heat and direct sunlight.

**Recommended storage temperature**

Value 0 - 30 °C

**Storage stability**

Value 2 year(s)

**Requirements for storage rooms and vessels**

Containers which are opened must be carefully closed and kept upright to prevent leakage. Keep only in the original container.

**Incompatible products**

Do not store together with foodstuffs.

**7.3 Specific end use(s)****Industry solution**

Always read the label and product information before use.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Occupational exposure limit values**

No	Substance name	CAS no.	EC no.
1	glycerol	56-81-5	200-289-5
<b>List of approved workplace exposure limits (WELs) / EH40</b>			
Glycerol mist			
	WEL long-term (8-hr TWA reference period)	10	mg/m <sup>3</sup>

**DNEL, DMEL and PNEC values****DNEL values (worker)**

No	Substance name	CAS / EC no		
	Route of exposure	Exposure time	Effect	Value
1	<b>White mineral oil (petroleum)</b>			<b>8042-47-5</b> <b>232-455-8</b>
	dermal	Long term (chronic)	systemic	220 mg/kg/day
	inhalative	Long term (chronic)	systemic	160 mg/m <sup>3</sup>
2	<b>bronopol</b>			<b>52-51-7</b> <b>200-143-0</b>
	dermal	Long term (chronic)	systemic	2 mg/kg bw/day
	dermal	Short term (acut)	systemic	6 mg/kg bw/day
	dermal	Long term (chronic)	local	8 µg/cm <sup>2</sup>
	dermal	Short term (acut)	local	8 µg/cm <sup>2</sup>
	inhalative	Long term (chronic)	systemic	3.5 mg/m <sup>3</sup>
	inhalative	Short term (acut)	systemic	10.5 mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	2.5 mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	2.5 mg/m <sup>3</sup>
3	<b>1,2-benzisothiazol-3(2H)-one</b>			<b>2634-33-5</b> <b>220-120-9</b>
	dermal	Long term (chronic)	systemic	0.966 mg/kg bw/day
	dermal	Long term (chronic)	local	
	Comments: high hazard (no threshold derived)			
	dermal	Short term (acut)	local	
	Comments: high hazard (no threshold derived)			
	inhalative	Long term (chronic)	systemic	6.81 mg/m <sup>3</sup>
4	<b>reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H - isothiazol-3-one (3:1)</b>			<b>55965-84-9</b> -
	inhalative	Long term (chronic)	local	0.02 mg/m <sup>3</sup>

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	inhalative	Short term (acut)	local	0.04	mg/m <sup>3</sup>
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**DNEL value (consumer)**

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	<b>White mineral oil (petroleum)</b>			<b>8042-47-5</b> <b>232-455-8</b>	
	oral	Long term (chronic)	systemic	40	mg/kg/day
	dermal	Long term (chronic)	systemic	93	mg/kg/day
	inhalative	Long term (chronic)	systemic	35	mg/m <sup>3</sup>
2	<b>bronopol</b>			<b>52-51-7</b> <b>200-143-0</b>	
	oral	Long term (chronic)	systemic	0.18	mg/kg bw/day
	oral	Short term (acut)	systemic	0.5	mg/kg bw/day
	dermal	Long term (chronic)	systemic	0.7	mg/kg bw/day
	dermal	Short term (acut)	systemic	2.1	mg/kg bw/day
	dermal	Long term (chronic)	local	4	µg/cm <sup>2</sup>
	dermal	Short term (acut)	local	4	µg/cm <sup>2</sup>
	inhalative	Long term (chronic)	systemic	0.6	mg/m <sup>3</sup>
	inhalative	Short term (acut)	systemic	1.8	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	0.6	mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	0.6	mg/m <sup>3</sup>
3	<b>1,2-benzisothiazol-3(2H)-one</b>			<b>2634-33-5</b> <b>220-120-9</b>	
	dermal	Long term (chronic)	systemic	0.345	mg/kg bw/day
	dermal	Long term (chronic)	local		
	Comments: high hazard (no threshold derived)				
	dermal	Short term (acut)	local		
	Comments: high hazard (no threshold derived)				
	inhalative	Long term (chronic)	systemic	1.2	mg/m <sup>3</sup>
4	<b>reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H - isothiazol-3-one (3:1)</b>			<b>55965-84-9</b> -	
	oral	Long term (chronic)	systemic	0.09	mg/kg/day
	oral	Short term (acut)	systemic	0.11	mg/kg/day
	inhalative	Long term (chronic)	local	0.02	mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	0.04	mg/m <sup>3</sup>

**PNEC values**

No	Substance name		CAS / EC no	
	ecological compartment	Type	Value	
1	<b>bronopol</b>		<b>52-51-7</b> <b>200-143-0</b>	
	water	fresh water	0.01	mg/L
	water	marine water	0.001	mg/L
	water	fresh water sediment	0.041	mg/kg dry weight
	water	marine water sediment	0.003	mg/kg dry weight
	soil	-	0.5	mg/kg dry weight
	sewage treatment plant	-	0.43	mg/L
2	<b>1,2-benzisothiazol-3(2H)-one</b>		<b>2634-33-5</b> <b>220-120-9</b>	
	water	fresh water	4.03	µg/L
	water	marine water	0.403	µg/L
	water	fresh water sediment	49.9	µg/kg dry weight
	water	marine water sediment	4.99	µg/kg dry weight
	soil	-	3	mg/kg dry weight

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	sewage treatment plant	-	1.03	mg/L
3	<b>reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H - isothiazol-3-one (3:1)</b>		<b>55965-84-9</b>	-
	water	fresh water	3.39	µg/L
	water	marine water	3.39	µg/L
	water	fresh water sediment	0.027	mg/kg dry weight
	water	marine water sediment	0.027	mg/kg dry weight
	soil	-	0.01	mg/kg dry weight
	sewage treatment plant	-	0.23	mg/L

## 8.2 Exposure controls

### Appropriate engineering controls

No data available.

### Personal protective equipment

#### Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

#### Eye / face protection

Safety glasses (EN 166)

#### Hand protection

In case of intensive contact, wear protective gloves (EN 374). Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material nitrile rubber

#### Other

Chemical-resistant work clothes. Rubber boots. (EN 13832-3/EN ISO 20345)

### Environmental exposure controls

No data available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>State of aggregation</b>	
liquid	
<b>Form/Colour</b>	
liquid	
red	
<b>Odour</b>	
characteristic	
<b>pH value</b>	
Value	8.7
Reference temperature	20 °C
<b>Boiling point / boiling range</b>	
Value	100 °C
<b>Melting point/freezing point</b>	
No data available	
<b>Decomposition temperature</b>	
No data available	

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<b>Flash point</b>			
No data available			
<b>Ignition temperature</b>			
No data available			
<b>Auto-ignition temperature</b>			
Value	312 °C		
<b>Explosive properties</b>			
The product does not have explosive properties.			
<b>Flammability</b>			
No data available			
<b>Lower explosion limit</b>			
No data available			
<b>Upper explosion limit</b>			
No data available			
<b>Vapour pressure</b>			
No data available			
<b>Relative vapour density</b>			
No data available			
<b>Relative density</b>			
No data available			
<b>Density</b>			
Value	1.058 g/cm <sup>3</sup>		
Reference temperature	20 °C		
<b>Solubility</b>			
No data available			
<b>Partition coefficient n-octanol/water (log value)</b>			
No	Substance name	CAS no.	EC no.
1	N-allyl-4,5-dimethyl- 2-(trimethylsilyl)thio-phene-3-carboxamide	175217-20-6	605-752-9
log Pow		3.4	
Source		Manufacturer	
2	bronopol	52-51-7	200-143-0
log Pow		0.22	
Reference temperature		24 °C	
with reference to		pH 7	
Method		EU Method A.8	
Source		ECHA	
3	1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9
log Pow		0.7	
Reference temperature		20 °C	
with reference to		pH 7	
Method		EU Method A.8	
Source		ECHA	
<b>Viscosity</b>			
Value	15.8 - 93.1 mPa*s		
Reference temperature	20 °C		
Type	dynamic		
<b>Particle characteristics</b>			
No data available			

**9.2 Other information**

<b>Other information</b>
No data available.



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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product is stable under normal storage and handling conditions.

### 10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

### 10.3 Possibility of hazardous reactions

Dangerous reactions are not to be expected when handling product according to its intended use.

### 10.4 Conditions to avoid

None, if handled according to intended use.

### 10.5 Incompatible materials

None known.

### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

## SECTION 11: Toxicological information

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

Acute oral toxicity			
No	Product Name		
1	Latitude XL		
LD50	>	5000	mg/kg
Species	rat		
Source	Manufacturer		

Acute dermal toxicity			
No	Product Name		
1	Latitude XL		
LD50	>	5000	mg/kg
Species	rat		
Source	Manufacturer		

Acute inhalational toxicity			
No	Product Name		
1	Latitude XL		
LC50	>	5.21	mg/l
Duration of exposure		4	h
State of aggregation	Dust/mist		
Species	rat		
Source	Manufacturer		

Skin corrosion/irritation			
No	Product Name		
1	Latitude XL		
Species	rabbit		
Method	OECD 404		
Source	Manufacturer		
Evaluation	non-irritant		

Serious eye damage/irritation			
No	Product Name		
1	Latitude XL		
Species	rabbit		
Method	OECD 405		
Source	Manufacturer		
Evaluation	non-irritant		

Respiratory or skin sensitisation			
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No	Product Name
1	Latitude XL
Route of exposure	
Skin	
Species	guinea pig
Method	OECD 406
Source	Manufacturer
Evaluation	Non-sensitizing

Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.
1	White mineral oil (petroleum)	8042-47-5	232-455-8
Type of examination		in vitro gene mutation study in mammalian cells	
Species	mouse		
Method	OECD 476		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Type of examination		in vivo somatic mammalian cell study: cytogenesis / erythrocyte micronucleus.	
Species	mouse		
Method	OECD 474		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	bronopol	52-51-7	200-143-0
Type of examination		in vitro gene mutation study in bacteria	
Species	S. typhimurium TA 1535, TA 1537, TA 98 and TA 100S. typhimurium TA 1535, TA 1537, TA 98, TA 100, TA 102		
Method	OECD 471		
Source	ECHA		
Evaluation/classification	On the basis of the available information, the classification criteria are not met.		
3	1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9
Type of examination		in vitro gene mutation study in mammalian cells	
Species	mouse		
Method	OECD 476		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
4	reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (3:1)	55965-84-9	-
Route of exposure		oral	
Type of examination		Chromosome aberration test	
Species	mouse		
Method	OECD 475		
Source	ECHA		
Evaluation/classification	On the basis of the available information, the classification criteria are not met.		

Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	White mineral oil (petroleum)	8042-47-5	232-455-8
Type of examination		Toxicity study	
Species	rat		
Method	OECD 415		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Type of examination		Prenatal Developmental Toxicity Study	
Species	rat		
Method	OECD 414		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9
Route of exposure		oral	
Type of examination		Two-Generation Reproduction Toxicity Study	

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Species	rat
Method	EPA OPPTS 870.3800
Source	ECHA
Evaluation/classification	On the basis of the available information, the classification criteria are not met.
<b>3</b>	<b>reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (3:1) 55965-84-9 -</b>
Route of exposure	oral
Type of examination	Two-Generation Reproduction Toxicity Study
Species	rat
Method	OECD 416
Source	ECHA
Evaluation/classification	On the basis of the available information, the classification criteria are not met.

<b>Carcinogenicity</b>			
No	Substance name	CAS no.	EC no.
1	<b>N-allyl-4,5-dimethyl- 2-(trimethylsilyl)thio-phene-3-carboxamide</b>	<b>175217-20-6</b>	<b>605-752-9</b>
Evaluation/classification		Based on available data, the classification criteria are not met.	
<b>2</b>	<b>White mineral oil (petroleum)</b>	<b>8042-47-5</b>	<b>232-455-8</b>
Route of exposure		oral	
Type of examination		Toxicity study	
Species		rat	
Method		OECD 453	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
<b>3</b>	<b>bronopol</b>	<b>52-51-7</b>	<b>200-143-0</b>
Route of exposure		oral	
NOEL		7	mg/kg bw/d
Duration of exposure		104	week/s
Species		rat	
Source		ECHA	
Evaluation/classification		On the basis of the available information, the classification criteria are not met.	

<b>STOT - single exposure</b>			
No	Substance name	CAS no.	EC no.
1	<b>bronopol</b>	<b>52-51-7</b>	<b>200-143-0</b>
Route of exposure		inhalational	
Target organ		respiratory tract	
Source		ECHA	
Effects		May cause respiratory irritation.	

<b>STOT - repeated exposure</b>			
No	Substance name	CAS no.	EC no.
1	<b>N-allyl-4,5-dimethyl- 2-(trimethylsilyl)thio-phene-3-carboxamide</b>	<b>175217-20-6</b>	<b>605-752-9</b>
Evaluation/classification		May cause damage to organs through prolonged or repeated exposure	
<b>2</b>	<b>White mineral oil (petroleum)</b>	<b>8042-47-5</b>	<b>232-455-8</b>
Route of exposure		oral	
Species		rat	
Method		OECD 453	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Route of exposure		inhalational	
Species		rat	
Method		OECD 412	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Route of exposure		dermal	

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Species	rat		
Method	OECD 411		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>3</b>	<b>1,2-benzisothiazol-3(2H)-one</b>	<b>2634-33-5</b>	<b>220-120-9</b>
Route of exposure	oral		
Duration of exposure	90	day(s)	
Species	rat		
Method	EPA OPP 82-1		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

**Aspiration hazard**

No data available

**11.2 Information on other hazards****Endocrine disrupting properties**

No data available.

**Other information**

No data available.

**SECTION 12: Ecological information****12.1 Toxicity**

<b>Toxicity to fish (acute)</b>			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>N-allyl-4,5-dimethyl- 2-(trimethylsilyl)thio-phene-3-carboxamide</b>	<b>175217-20-6</b>	<b>605-752-9</b>
LC50		14	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 203		
Source	Manufacturer		
<b>2</b>	<b>White mineral oil (petroleum)</b>	<b>8042-47-5</b>	<b>232-455-8</b>
LL50	>	10000	mg/l
Duration of exposure		96	h
Species	Leuciscus idus		
Method	OECD 203		
Source	ECHA		
<b>3</b>	<b>bronopol</b>	<b>52-51-7</b>	<b>200-143-0</b>
LC50		35.7	mg/l
Duration of exposure		96	h
Species	Lepomis macrochirus		
Method	EPA OPP 72-1		
Source	ECHA		
<b>4</b>	<b>1,2-benzisothiazol-3(2H)-one</b>	<b>2634-33-5</b>	<b>220-120-9</b>
LC50		2.15	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 203		
Source	ECHA		
<b>5</b>	<b>reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (3:1)</b>	<b>55965-84-9</b>	<b>-</b>
LC50		0.19	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	EPA OPP 72-1		
Source	ECHA		

**Toxicity to fish (chronic)**

No	Substance name	CAS no.	EC no.
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1	<b>N-allyl-4,5-dimethyl- 2-(trimethylsilyl)thio-phene-3-carboxamide</b>	<b>175217-20-6</b>	<b>605-752-9</b>
NOEC		3.2	mg/l
Species	Oncorhynchus mykiss		
Method	OECD 203		
Source	Manufacturer		
NOEC		0.89	mg/l
Duration of exposure		28	day(s)
Species	Pimephales promelas		
Method	OECD 210		
Source	Manufacturer		
2	<b>bronopol</b>	<b>52-51-7</b>	<b>200-143-0</b>
NOEC		21.5	mg/l
Duration of exposure		49	day(s)
Species	Oncorhynchus mykiss		
Method	OECD 210		
Source	ECHA		
3	<b>reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (3:1)</b>	<b>55965-84-9</b>	<b>-</b>
NOEC		0.098	mg/l
Duration of exposure		28	day(s)
Species	Oncorhynchus mykiss		
Method	OECD 215		
Source	ECHA		

**Toxicity to Daphnia (acute)**

No	Substance name	CAS no.	EC no.
1	<b>N-allyl-4,5-dimethyl- 2-(trimethylsilyl)thio-phene-3-carboxamide</b>	<b>175217-20-6</b>	<b>605-752-9</b>
EC50		14.0	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	Manufacturer		
2	<b>White mineral oil (petroleum)</b>	<b>8042-47-5</b>	<b>232-455-8</b>
EL50	>	100	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
3	<b>bronopol</b>	<b>52-51-7</b>	<b>200-143-0</b>
EC50		1.4	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
4	<b>1,2-benzisothiazol-3(2H)-one</b>	<b>2634-33-5</b>	<b>220-120-9</b>
EC50		2.9	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
5	<b>reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (3:1)</b>	<b>55965-84-9</b>	<b>-</b>
EC50		0.16	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	EPA OPP 72-2		
Source	ECHA		

**Toxicity to Daphnia (chronic)**

No	Substance name	CAS no.	EC no.
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1	<b>N-allyl-4,5-dimethyl- 2-(trimethylsilyl)thio-phene-3-carboxamide</b>	<b>175217-20-6</b>	<b>605-752-9</b>
NOEC		4.9	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	Manufacturer		
NOEC		0.47	mg/l
Species	Daphnia magna		
Method	OECD 211		
Source	Manufacturer		
2	<b>bronopol</b>	<b>52-51-7</b>	<b>200-143-0</b>
NOEC		0.27	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		
3	<b>reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (3:1)</b>	<b>55965-84-9</b>	<b>-</b>
NOEC		0.1	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Method	EPA OPP 72-4		
Source	ECHA		

**Toxicity to algae (acute)**

No	<b>Substance name</b>	<b>CAS no.</b>	<b>EC no.</b>
1	<b>bronopol</b>	<b>52-51-7</b>	<b>200-143-0</b>
EC50		0.25	mg/l
Duration of exposure		72	h
Species	Skeletonema costatum		
Method	ISO 10253		
Source	ECHA		
2	<b>1,2-benzisothiazol-3(2H)-one</b>	<b>2634-33-5</b>	<b>220-120-9</b>
EC50		0.11	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		
3	<b>reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (3:1)</b>	<b>55965-84-9</b>	<b>-</b>
EC50		0.0199	mg/l
Duration of exposure		72	h
Species	Skeletonema costatum		
Method	OECD 201		
Source	ECHA		

**Toxicity to algae (chronic)**

No	<b>Substance name</b>	<b>CAS no.</b>	<b>EC no.</b>
1	<b>N-allyl-4,5-dimethyl- 2-(trimethylsilyl)thio-phene-3-carboxamide</b>	<b>175217-20-6</b>	<b>605-752-9</b>
NOEC		4.6	mg/l
Duration of exposure		5	day(s)
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	Manufacturer		
NOEC		2.3	mg/l
Duration of exposure		5	day(s)
Species	Selenastrum capricornutum		
Method	OECD 201		
Source	Manufacturer		

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Bacteria toxicity			
No	Substance name	CAS no.	EC no.
1	1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9
EC50		12.8	mg/l
Duration of exposure		3	h
Species	activated sludge		
Method	OECD 209		
Source	ECHA		
2	reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (3:1)	55965-84-9	-
EC50		4.5	mg/l
Duration of exposure		3	h
Species	activated sludge		
Method	OECD 209		
Source	ECHA		

## 12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	White mineral oil (petroleum)	8042-47-5	232-455-8
Type	aerobic biodegradation		
Value		31	%
Duration		28	day(s)
Method	OECD 301 F		
Source	ECHA		
Evaluation	potentially biodegradable		
2	bronopol	52-51-7	200-143-0
Type	CO2 formation in % of theoretical value		
Value	70	- 80	%
Duration		28	day(s)
Method	OECD 301 B		
Source	ECHA		
Evaluation	readily degradable		
3	1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9
Type	CO2 formation in % of theoretical value		
Value	>	62	%
Duration		4	day(s)
Method	OECD 301 C		
Source	ECHA		
Evaluation	readily biodegradable		

## 12.3 Bioaccumulative potential

Bioconcentration factor (BCF)			
No	Substance name	CAS no.	EC no.
1	N-allyl-4,5-dimethyl- 2-(trimethylsilyl)thio-phene-3-carboxamide	175217-20-6	605-752-9
BCF		98	
Species	rainbow trout		
Source	Manufacturer		
2	1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9
BCF		0.01	- 0.1
Source	ECHA		
3	reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (3:1)	55965-84-9	-
BCF		<=	54
Species	fish		
Source	ECHA		

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	N-allyl-4,5-dimethyl- 2-(trimethylsilyl)thio-phene-3-	175217-20-6	605-752-9

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carboxamide			
log Pow		3.4	
Source	Manufacturer		
<b>2</b>	<b>bronopol</b>	<b>52-51-7</b>	<b>200-143-0</b>
log Pow		0.22	
Reference temperature		24	°C
with reference to	pH 7		
Method	EU Method A.8		
Source	ECHA		
<b>3</b>	<b>1,2-benzisothiazol-3(2H)-one</b>	<b>2634-33-5</b>	<b>220-120-9</b>
log Pow		0.7	
Reference temperature		20	°C
with reference to	pH 7		
Method	EU Method A.8		
Source	ECHA		

**12.4 Mobility in soil**

Mobility in soil			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>1,2-benzisothiazol-3(2H)-one</b>	<b>2634-33-5</b>	<b>220-120-9</b>
log Koc		0.97	
Reference temperature		25	°C
Method	OECD 121		
Source	ECHA		

**12.5 Results of PBT and vPvB assessment**

No data available.

**12.6 Endocrine disrupting properties**

No data available.

**12.7 Other adverse effects**

No data available.

**12.8 Other information**

Other information
Do not discharge product unmonitored into the environment.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

**Packaging**

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

**SECTION 14: Transport information****14.1 Transport ADR/RID/ADN**

The product is not subject to ADR/RID/ADN regulations.

**14.2 Transport IMDG**

The product is not subject to IMDG regulations.

**14.3 Transport ICAO-TI / IATA**

The product is not subject to ICAO-TI / IATA regulations.

**14.4 Other information**

No data available.



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Information on environmental hazards, if relevant, please see 14.1 - 14.3.

**14.6 Special precautions for user**

No data available.

**14.7 Maritime transport in bulk according to IMO instruments**

Not relevant

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

**REACH candidate list of substances of very high concern (SVHC) for authorisation**

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

**Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES**

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.	No 3
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The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No	Substance name	CAS no.	EC no.	No
1	1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9	75
2	1-OCTYL-2-PYRROLIDONE	2687-94-7	403-700-8	75
3	2-amino-2-methylpropanol	124-68-5	204-709-8	75
4	acetaldehyde	75-07-0	200-836-8	75
5	bronopol	52-51-7	200-143-0	75
6	dichloromethane	75-09-2	200-838-9	75
7	methenamine	100-97-0	202-905-8	75
8	reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (3:1)	55965-84-9	-	75
9	sodium hydroxide	1310-73-2	215-185-5	75
10	vinyl acetate	108-05-4	203-545-4	75

**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This product is not subject to Part 1 or 2 of Annex I.

**Other regulations**

Adhere to the national sanitary and occupational safety regulations when using this product.

**Regulation (EC) No 1107/2009 concerning the placing of plant protection products on the market**

Regulation (EU) No 547/2011 implementing Regulation (EC) No 1107/2009 as regards labelling requirements for plant protection products

**Annex III**

SP1 Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

**15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out for this mixture.

**SECTION 16: Other information**

Sources of key data used to compile the data sheet:

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Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

**Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)**

EUH071	Corrosive to the respiratory tract.
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.
H335	May cause respiratory irritation.
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.

**Creation of the safety data sheet**

UMCO GmbH

Georg-Wilhelm-Str. 187, D-21107 Hamburg

Tel.: +49 40 / 555 546 300 Fax: +49 40 / 555 546 357 e-mail: [umco@umco.de](mailto:umco@umco.de)

This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

**Alterations/supplements:**

Alterations to the previous edition are marked in the left-hand margin.

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