



## SAFETY DATA SHEET

# 774 Satin

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

#### 1.1. Product identifier

Trade name  
774 Satin

Product no.  
774xxx

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

Relevant identified uses of the substance or mixture  
Paint

Uses advised against  
None known.

#### 1.3. Details of the supplier of the safety data sheet

Company and address  
**Beck & Jørgensen A/S**  
Rosenkaeret 25-29  
DK-2860 Søborg  
Denmark  
Tel: +45 39 53 03 11

Contact person  
Mikael Jensen

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Revision  
10/09/2024

SDS Version  
3.0

Date of previous version  
10/09/2024 (3.0)

#### 1.4. Emergency telephone number

Contact the poison hotline: +45 82 12 12 12 (24 hour service)  
See section 4 "First aid measures".

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Aquatic Chronic 3; H412, Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements

Hazard pictogram(s)  
Not applicable.

Signal word  
Not applicable.

Hazard statement(s)  
Harmful to aquatic life with long lasting effects. (H412)

Precautionary statement(s)  
General

-

Prevention  
Avoid release to the environment. (P273)

Response

-  
Storage

-  
Disposal

Dispose of contents/container in accordance with local regulation (P501)

Hazardous substances

bronopol (INN);2-bromo-2-nitropropane-1,3-diol  
3-iodo-2-propynyl butylcarbamate 3-iodoprop-2-yn-1-yl butylcarbamate  
terbutryn  
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one;1,2-benzisothiazolin-3-one  
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

▼ Additional labelling

EUH208, Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1).  
May produce an allergic reaction.  
This paint contains a biocidal product for the preservation of the dry film.

VOC

VOC content: 1 g/L  
MAXIMUM VOC CONTENT (Phase II, category A/d (WB): 130 g/L)

2.3. Other hazards

Additional warnings

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.  
This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
Titan dioxide > 10µm	CAS No.: 13463-67-7 EC No.: 236-675-5 REACH: 01-2119489379-17 Index No.:	15-25%		
bronopol (INN);2-bromo-2-nitropropane-1,3-diol	CAS No.: 52-51-7 EC No.: 200-143-0 REACH: 01-2119980938-15-XXXX Index No.: 603-085-00-8	<0.05%	Acute Tox. 3, H301 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 Acute Tox. 3, H331 STOT SE 3, H335 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=10)	
3-iodo-2-propynyl butylcarbamate 3-iodoprop-2-yn-1-yl butylcarbamate	CAS No.: 55406-53-6 EC No.: 259-627-5 REACH: Index No.: 616-212-00-7	<0.05%	Acute Tox. 4, H302 (ATE: 1056.00 mg/kg) Skin Sens. 1, H317 Eye Dam. 1, H318 Acute Tox. 3, H331 STOT RE 1, H372 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1)	
terbutryn	CAS No.: 886-50-0 EC No.: 212-950-5 REACH: Index No.:	<0.05%	Acute Tox. 4, H302 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one; one;1,2-benzisothiazolin-3-one	CAS No.: 2634-33-5 EC No.: 220-120-9 REACH: 01-2120761540-60-XXXX Index No.: 613-088-00-6	<0.01%	Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 (SCL: 0.036 %) Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS No.: 55965-84-9 EC No.: 611-341-5 REACH: Index No.: 613-167-00-5	<0.0015%	Acute Tox. 3, H301 Acute Tox. 3, H311 Skin Corr. 1B, H314 (SCL: 0.60 %) Skin Irrit. 2, H315 (SCL: 0.06 %) Skin Sens. 1, H317 (SCL: 0.0015 %) Eye Irrit. 2, H319 (SCL: 0.06 %) Acute Tox. 3, H331 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

#### Other information

[1] European occupational exposure limit.

[19] UVCB = Unknown or variable composition, complex reaction products or of biological materials

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

#### Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

#### Skin contact

IF ON SKIN: Wash with plenty of water and soap.

Remove contaminated clothing and shoes. Ensure to wash exposed skin thoroughly with water and soap. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

#### Eye contact

If in eyes: Flush eyes with water or saline water (20-30 °C) for at least 5 minutes. Remove contact lenses. Seek medical assistance and continue flushing during transport.

#### Ingestion

If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink.

In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

#### Burns

Not applicable.

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

Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact.

Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.

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

Treat symptomatically.

#### Information to medics

Bring this safety data sheet or the label from this product.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

### 5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Some metal oxides

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the chemical emergency services on 72 85 20 00 (24 h service) in order to obtain further advice.

## SECTION 6: Accidental release measures

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

Contaminated areas may be slippery.

### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

### 6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

### 6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

### 7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

#### Recommended storage material

Always store in containers of the same material as the original container.

#### Storage conditions

Room temperature 18 to 23°C

#### Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Titan dioxide > 10µm

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 6

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 12

2-butoxyethanol; ethylene glycol monobutyl ether

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 98  
 Long term exposure limit (8 hours) (ppm): 20  
 Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 246  
 Short term exposure limit (15 minutes) (ppm): 50

Annotations:

E = Substance has an EC limit.

H = The substance can be absorbed through the skin.

Statutory order 291 on exposure limits for substances and mixtures (19/03/2024)

#### DNEL

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one; 1,2-benzisothiazolin-3-one

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	345 µg/kgbw/day
Long term – Systemic effects - Workers	Dermal	966 µg/kgbw/day
Long term – Systemic effects - General population	Inhalation	1.2 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	6.81 mg/m <sup>3</sup>

2-butoxyethanol; ethylene glycol monobutyl ether

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Inhalation	59 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	98 mg/m <sup>3</sup>
Short term – Local effects - General population	Inhalation	147 mg/m <sup>3</sup>
Short term – Local effects - Workers	Inhalation	246 mg/m <sup>3</sup>
Short term – Systemic effects - General population	Inhalation	426 mg/m <sup>3</sup>
Short term – Systemic effects - Workers	Inhalation	1091 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	6.3 mg/kg bw/day
Short term – Systemic effects - General population	Oral	26.7 mg/kg bw/day

bronopol (INN); 2-bromo-2-nitropropane-1,3-diol

Duration:	Route of exposure:	DNEL:
Long term – Local effects - General population	Dermal	4 µg/cm <sup>2</sup>
Long term – Local effects - Workers	Dermal	8 µg/cm <sup>2</sup>
Long term – Systemic effects - General population	Dermal	700 µg/kgbw/day
Long term – Systemic effects - Workers	Dermal	2 mg/kg bw/day
Short term – Local effects - General population	Dermal	4 µg/cm <sup>2</sup>
Short term – Local effects - Workers	Dermal	8 µg/cm <sup>2</sup>
Short term – Systemic effects - General population	Dermal	2.1 mg/kg bw/day
Short term – Systemic effects - Workers	Dermal	6 mg/kg bw/day
Long term – Local effects - General population	Inhalation	600 µg/m <sup>3</sup>
Long term – Local effects - Workers	Inhalation	2.5 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Inhalation	600 µg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	3.5 mg/m <sup>3</sup>
Short term – Local effects - General population	Inhalation	600 µg/m <sup>3</sup>
Short term – Local effects - Workers	Inhalation	2.5 mg/m <sup>3</sup>
Short term – Systemic effects - General population	Inhalation	1.8 mg/m <sup>3</sup>
Short term – Systemic effects - Workers	Inhalation	10.5 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	180 µg/kgbw/day
Short term – Systemic effects - General population	Oral	500 µg/kgbw/day

Fatty alcohol ethoxylate

<b>Duration:</b>	<b>Route of exposure:</b>	<b>DNEL:</b>
Long term – Systemic effects - General population	Dermal	66.7 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	187 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	3.48 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	19.6 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	1.33 mg/kg bw/day

#### propylidyntrimethanol

<b>Duration:</b>	<b>Route of exposure:</b>	<b>DNEL:</b>
Long term – Systemic effects - General population	Dermal	340 µg/kgbw/day
Long term – Systemic effects - Workers	Dermal	940 µg/kgbw/day
Long term – Systemic effects - General population	Inhalation	580 µg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	3.3 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	340 µg/kgbw/day

#### reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

<b>Duration:</b>	<b>Route of exposure:</b>	<b>DNEL:</b>
Long term – Local effects - General population	Inhalation	20 µg/m <sup>3</sup>
Long term – Local effects - Workers	Inhalation	20 µg/m <sup>3</sup>
Short term – Local effects - General population	Inhalation	40 µg/m <sup>3</sup>
Short term – Local effects - Workers	Inhalation	40 µg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	90 µg/kgbw/day
Short term – Systemic effects - General population	Oral	110 µg/kgbw/day

#### Titan dioxide > 10µm

<b>Duration:</b>	<b>Route of exposure:</b>	<b>DNEL:</b>
Long term – Local effects - Workers	Inhalation	10 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	700 mg/kg bw/day

#### PNEC

##### 3-iodo-2-propynyl butylcarbamate 3-iodoprop-2-yn-1-yl butylcarbamate

<b>Route of exposure:</b>	<b>Duration of Exposure:</b>	<b>PNEC:</b>
Soil	Single	0,005 mg/l
Water	Single	0,0005 mg/l

##### 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one;1,2-benzisothiazolin-3-one

<b>Route of exposure:</b>	<b>Duration of Exposure:</b>	<b>PNEC:</b>
Freshwater		4.03 µg/L
Freshwater sediment		49.9 µg/kg
Intermittent release (freshwater)		1.1 µg/L
Intermittent release (marine water)		110 ng/L
Marine water		403 ng/L
Marine water sediment		4.99 µg/kg
Sewage treatment plant		1.03 mg/L
Soil		3 mg/kg

##### 2-butoxyethanol; ethylene glycol monobutyl ether

<b>Route of exposure:</b>	<b>Duration of Exposure:</b>	<b>PNEC:</b>
Freshwater		8.8 mg/L
Freshwater sediment		34.6 mg/kg

Intermittent release (freshwater)	26.4 mg/L
Marine water	880 µg/L
Marine water sediment	3.46 mg/kg
Predators	20 mg/kg
Sewage treatment plant	463 mg/L
Soil	2.33 mg/kg

bronopol (INN);2-bromo-2-nitropropane-1,3-diol

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		1.25 µg/L
Freshwater sediment		21.5 µg/kg
Intermittent release (freshwater)		265 ng/L
Marine water		520 ng/L
Marine water sediment		8.944 µg/kg
Sewage treatment plant		430 µg/L
Soil		210 µg/kg

Fatty alcohol ethoxylate

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		3.4 µg/L
Freshwater sediment		89.5 µg/kg
Intermittent release (freshwater)		445 ng/L
Intermittent release (marine water)		44.5 ng/L
Marine water		340 ng/L
Marine water sediment		8.95 µg/kg
Sewage treatment plant		200 µg/L
Soil		16 µg/kg

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		3.39 µg/L
Freshwater sediment		27 µg/kg
Intermittent release (freshwater)		3.39 µg/L
Intermittent release (marine water)		3.39 µg/L
Marine water		3.39 µg/L
Marine water sediment		27 µg/kg
Sewage treatment plant		230 µg/L
Soil		10 µg/kg

Titan dioxide > 10µm

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater	-	0,184 mg/l
Freshwater sediment	-	1000 mg/l
Intermittent release	-	0,193 mg/l
Marine water	-	0,0184 mg/l
Marine water sediment	-	100 mg/Kg
Sewage treatment plant	-	100 mg/l
Soil	-	100 mg/l

## 8.2. Exposure controls

Apply general control to prevent unnecessary exposure

### General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

### Exposure scenarios

There are no exposure scenarios implemented for this product.

### Exposure limits

Occupational exposure limits have not been defined for the substances in this product.

### Appropriate technical measures

Apply standard precautions during use of the product. Avoid inhalation of vapours.

### Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

### Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.


## Individual protection measures, such as personal protective equipment

### Generally


In the event the work process is within scope of the Danish statutory order on work with code numbered products (Work Inspectorate Order no. 302/1993), then personal protection equipment shall be selected as set out herein. If applicable, please refer to the code number of this product in section 15.

Use only CE marked protective equipment.


### Respiratory Equipment

Type	Class	Colour	Standards	
S/SL	P2	White	EN149	

### Skin protection

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn. Wear a protective suit in the event of prolonged periods of work with the product.	-	-	

### Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Nitrile	0.4	> 480	EN374-2, EN374-3, EN388	

### Eye protection

No specific requirements.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Physical state

Liquid

#### Colour

Various colours

#### Odour / Odour threshold

Faint

#### pH

8,0 - 8,8

#### Density (g/cm<sup>3</sup>)

1,26 - 1,28 (20 °C)



#### Kinematic viscosity

No relevant or available data due to the nature of the product.

#### Particle characteristics

Does not apply to liquids.

#### Phase changes

##### Melting point/Freezing point (°C)

No relevant or available data due to the nature of the product.

##### Softening point/range (°C)

Does not apply to liquids.

##### Boiling point (°C)

No relevant or available data due to the nature of the product.

##### Vapour pressure

No relevant or available data due to the nature of the product.

##### Relative vapour density

No relevant or available data due to the nature of the product.

##### Decomposition temperature (°C)

No relevant or available data due to the nature of the product.

#### Data on fire and explosion hazards

##### Flash point (°C)

No relevant or available data due to the nature of the product.

##### Flammability (°C)

No relevant or available data due to the nature of the product.

##### Auto-ignition temperature (°C)

No relevant or available data due to the nature of the product.

##### Lower and upper explosion limit (% v/v)

No relevant or available data due to the nature of the product.

#### Solubility

##### Solubility in water

Completely soluble

##### n-octanol/water coefficient (LogKow)

No relevant or available data due to the nature of the product.

##### Solubility in fat (g/L)

No relevant or available data due to the nature of the product.

#### 9.2. Other information

##### VOC (g/L)

1

##### Other physical and chemical parameters

No data available.

##### Oxidizing properties

No relevant or available data due to the nature of the product.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No data available.

#### 10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

#### 10.3. Possibility of hazardous reactions

None known.

#### 10.4. Conditions to avoid

None known.

#### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

#### 10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

### SECTION 11: Toxicological information

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

#### Acute toxicity

Product/substance Titan dioxide > 10µm  
 Species: Rat  
 Route of exposure: Oral  
 Test: LD50  
 Result: >5000 mg/Kg ·

Product/substance Titan dioxide > 10µm  
 Species: Rat  
 Route of exposure: Inhalation  
 Test: LC50  
 Result: > 3,43 - 5,09 mg/l ·

Product/substance Fatty alcohol ethoxylate  
 Species: Rat  
 Route of exposure: Oral  
 Test: -  
 Result: > 300 - 2000 mg/kg ·

Product/substance terbutryn  
 Species: Rat  
 Route of exposure: Oral  
 Test: LD50  
 Result: 2045 mg/Kg ·

Product/substance terbutryn  
 Species: Mouse  
 Route of exposure: Oral  
 Test: LD50  
 Result: 3884 mg/Kg ·

Product/substance terbutryn  
 Species: Rabbit  
 Route of exposure: Dermal  
 Test: LD50  
 Result: > 10200 mg/Kg ·

Product/substance terbutryn  
 Species: Rat  
 Route of exposure: Inhalation  
 Test: LC50  
 Result: >5,34 mg/l (4 h) ·

Product/substance 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one;1,2-benzisothiazolin-3-one  
 Species: Rat  
 Route of exposure: Oral  
 Test: LD50  
 Result: 1193 mg/Kg ·

Product/substance 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one;1,2-benzisothiazolin-3-one  
 Species: Rat  
 Route of exposure: Dermal  
 Test: LD50  
 Result: 4115 mg/Kg ·

Product/substance 2-butoxyethanol; ethylene glycol monobutyl ether  
 Species: Rabbit  
 Route of exposure: Dermal  
 Test: LD50  
 Result: 210 mg/kg ·

Product/substance 2-butoxyethanol; ethylene glycol monobutyl ether  
 Species: Rabbit

Route of exposure: Oral  
 Test: LD50  
 Result: 300 mg/kg ·

Product/substance 2-butoxyethanol; ethylene glycol monobutyl ether  
 Species: Rat  
 Route of exposure: Inhalation  
 Test: LC50  
 Result: 2,21 mg/l/4h ·

Product/substance 2-butoxyethanol; ethylene glycol monobutyl ether  
 Species: Rat  
 Route of exposure: Oral  
 Test: LD50  
 Result: > 200 -< 2000 mg/kg ·

Product/substance 5-chloro-2-methyl-2H-isothiazol-3-one  
 Species: Rat  
 Route of exposure: Oral  
 Test: LD50  
 Result: 550 mg/kg

Product/substance 5-chloro-2-methyl-2H-isothiazol-3-one  
 Species: Rabbit  
 Route of exposure: Dermal  
 Test: LD50  
 Result: 1000 mg/kg

Product/substance 5-chloro-2-methyl-2H-isothiazol-3-one  
 Species: Rat  
 Route of exposure: Inhalation  
 Test: LC50 (4 hours)  
 Result: 0,31 mg/L

#### Skin corrosion/irritation

Product/substance 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one;1,2-benzisothiazolin-3-one  
 Test method: OECD 404  
 Species: Rabbit  
 Result: Adverse effect observed (Irritating)

#### Serious eye damage/irritation

Product/substance Fatty alcohol ethoxylate  
 Test method: no guideline followed  
 Species: Rabbit

Product/substance 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one;1,2-benzisothiazolin-3-one  
 Test method: no guideline followed  
 Result: Adverse effect observed (Causes serious eye damage)

#### Respiratory sensitisation

Based on available data, the classification criteria are not met.

#### Skin sensitisation

Product/substance 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one;1,2-benzisothiazolin-3-one  
 Species: Human  
 Result: Adverse effect observed (sensitising)  
 Other information: Can course allergic reaction at skin contact

Product/substance reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)  
 Test method: OECD 406  
 Other information: Can course allergic reaction at skin contact

#### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

#### Carcinogenicity

Based on available data, the classification criteria are not met.

#### Reproductive toxicity

Based on available data, the classification criteria are not met.

#### STOT-single exposure

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

#### 11.2. Information on other hazards

##### Long term effects

None known.

##### Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

##### Other information

None known.

## SECTION 12: Ecological information

### 12.1. Toxicity

Product/substance	Titan dioxide > 10µm
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	>1000 mg/l ·

Product/substance	Titan dioxide > 10µm
Species:	Daphnia
Duration:	48 hours
Test:	EC50
Result:	>1000 mg/l ·

Product/substance	Titan dioxide > 10µm
Species:	Algae
Duration:	72 hours
Test:	EC50
Result:	61 mg/l ·

Product/substance	Fatty alcohol ethoxylate
Species:	Algae
Duration:	72 hours
Test:	EC0
Result:	0,1 < 1 mg/l ·

Product/substance	bronopol (INN);2-bromo-2-nitropropane-1,3-diol
Test method:	OECD 202
Species:	Daphnia, Daphnia magna
Compartment:	Water
Duration:	48 hours
Test:	EC50
Result:	1,04 mg/L

Product/substance	bronopol (INN);2-bromo-2-nitropropane-1,3-diol
Test method:	OECD 201
Species:	Algae, Anabaena flos-aquae
Compartment:	Water
Duration:	72 hours
Test:	EC50
Result:	0,068 mg/L

Product/substance	bronopol (INN);2-bromo-2-nitropropane-1,3-diol
Test method:	OECD 203

Species:	Fish, <i>Lepomis macrochirus</i>
Compartment:	Water
Duration:	96 hours
Test:	LC50
Result:	11 mg/L
Product/substance	bronopol (INN);2-bromo-2-nitropropane-1,3-diol
Test method:	OECD 215
Species:	Fish, <i>Oncorhynchus mykiss</i>
Compartment:	Water
Duration:	28 days
Test:	NOEC
Result:	2,61 mg/L
Product/substance	bronopol (INN);2-bromo-2-nitropropane-1,3-diol
Test method:	OECD 201
Species:	Algae, <i>Anabaena flos-aquae</i>
Compartment:	Water
Duration:	72 hours
Test:	NOEC
Result:	0,0025 mg/L
Product/substance	bronopol (INN);2-bromo-2-nitropropane-1,3-diol
Test method:	OECD 209
Compartment:	Sewage treatment plant
Duration:	3 hours
Test:	EC50
Result:	11 mg/L
Product/substance	3-iodo-2-propynyl butylcarbamate 3-iodoprop-2-yn-1-yl butylcarbamate
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	0,049 mg/l ·
Product/substance	3-iodo-2-propynyl butylcarbamate 3-iodoprop-2-yn-1-yl butylcarbamate
Species:	Daphnia
Duration:	48 hours
Test:	EC50
Result:	0,160 mg/l ·
Product/substance	3-iodo-2-propynyl butylcarbamate 3-iodoprop-2-yn-1-yl butylcarbamate
Species:	Algae
Duration:	72 hours
Test:	IC50
Result:	0,022 mg/l ·
Product/substance	3-iodo-2-propynyl butylcarbamate 3-iodoprop-2-yn-1-yl butylcarbamate
Species:	Daphnia
Duration:	21 days
Test:	NOEC
Result:	1,3 mg/l ·
Product/substance	3-iodo-2-propynyl butylcarbamate 3-iodoprop-2-yn-1-yl butylcarbamate
Species:	Fish
Duration:	21 days
Test:	NOEC
Result:	0,01 mg/l ·
Product/substance	3-iodo-2-propynyl butylcarbamate 3-iodoprop-2-yn-1-yl butylcarbamate
Species:	Daphnia
Duration:	21 days
Test:	EC50
Result:	0,05 mg/l ·

Product/substance	3-iodo-2-propynyl butylcarbamate 3-iodoprop-2-yn-1-yl butylcarbamate
Species:	Fish
Duration:	35 d.
Test:	NOEC
Result:	0,0084 mg/l ·
Product/substance	3-iodo-2-propynyl butylcarbamate 3-iodoprop-2-yn-1-yl butylcarbamate
Species:	Algae
Duration:	72 hours
Test:	NOEC
Result:	0,0046 mg/l ·
Product/substance	terbutryn
Species:	Algae
Duration:	7 days
Test:	EC50
Result:	0,013 mg/l ·
Product/substance	terbutryn
Species:	Daphnia
Duration:	48 hours
Test:	EC50
Result:	2,66 mg/l ·
Product/substance	terbutryn
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	0,067 mg/l ·
Product/substance	terbutryn
Species:	Daphnia
Duration:	21 days
Test:	NOEC
Result:	1,3 mg/l ·
Product/substance	terbutryn
Species:	Fish
Duration:	35 d.
Test:	NOEC
Result:	0,84 mg/l ·
Product/substance	terbutryn
Species:	Fish
Duration:	21 days
Test:	NOEC
Result:	0,01 mg/l ·
Product/substance	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one; 1,2-benzisothiazolin-3-one
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	1,3 mg/l ·
Product/substance	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one; 1,2-benzisothiazolin-3-one
Species:	Daphnia
Duration:	96 hours
Test:	EC50
Result:	1,5 mg/l ·
Product/substance	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one; 1,2-benzisothiazolin-3-one
Species:	Algae
Duration:	48 hours

Test: Result:	EC50 0,055 mg/l ·
Product/substance Species: Duration: Test: Result:	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one;1,2-benzisothiazolin-3-one Daphnia 48 hours EC50 2,94 mg/l ·
Product/substance Species: Duration: Test: Result:	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one;1,2-benzisothiazolin-3-one Algae 24 hours EC50 0,11 mg/l ·
Product/substance Species: Duration: Test: Result:	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one;1,2-benzisothiazolin-3-one Fish No data available. NOEC 0,21 mg/l ·
Product/substance Species: Duration: Test: Result:	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one;1,2-benzisothiazolin-3-one Daphnia 21 days NOEC 1,2 mg/l ·
Product/substance Test method: Species: Compartment: Duration: Test: Result:	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) OECD 201 Algae, Pseudokirchneriella subcapitata Water 72 hours EC50 0,048 mg/L
Product/substance Test method: Species: Compartment: Duration: Test: Result:	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) OECD 202 Daphnia, Daphnia magna Water 48 hours EC50 0,1 mg/L
Product/substance Test method: Species: Compartment: Duration: Test: Result:	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) OECD 201 Algae, Skeletonema costatum Water 48 hours EC50 0,0052 mg/L
Product/substance Test method: Species: Compartment: Duration: Test: Result:	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) OECD 203 Fish, Oncorhynchus mykiss Water 96 hours LC50 0,22 mg/L
Product/substance Test method: Species: Compartment: Duration: Test:	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) OECD 211 Daphnia, Daphnia magna Water 21 days NOEC

Result: 0,004 mg/L

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Product/substance: reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)  
 Test method: OECD 215  
 Species: Fish, *Oncorhynchus mykiss*  
 Compartment: Water  
 Duration: 28 days  
 Test: NOEC  
 Result: 0,098 mg/L

Product/substance: reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)  
 Test method: OECD 209  
 Compartment: Sewage treatment plant  
 Duration: 3 hours  
 Test: EC50  
 Result: 7,92 mg/L

Product/substance: 2-butoxyethanol; ethylene glycol monobutyl ether  
 Species: Fish  
 Duration: 96 hours  
 Test: LC50  
 Result: 820 - 1490 mg/l ·

Product/substance: 2-butoxyethanol; ethylene glycol monobutyl ether  
 Species: *Daphnia*  
 Duration: 48 hours  
 Test: EC50  
 Result: 835 - 1550 mg/l ·

Product/substance: 2-butoxyethanol; ethylene glycol monobutyl ether  
 Species: Algae  
 Duration: 72 hours  
 Test: IC50  
 Result: 1840 mg/l ·

Product/substance: 5-chloro-2-methyl-2H-isothiazol-3-one  
 Species: Algae, *Pseudokirchneriella subcapitata*  
 Compartment: Water  
 Duration: 72 hours  
 Test: EC50  
 Result: 0,018 mg/L

Product/substance: 5-chloro-2-methyl-2H-isothiazol-3-one  
 Species: *Daphnia*, *Daphnia magna*  
 Compartment: Water  
 Duration: 48 hours  
 Test: EC50  
 Result: 0,16 mg/L

Harmful to aquatic life with long lasting effects.

## 12.2. Persistence and degradability

Product/substance: Fatty alcohol ethoxylate  
 Conclusion: Readily biodegradable

Product/substance: bronopol (INN);2-bromo-2-nitropropane-1,3-diol  
 Compartment: Water  
 Result: 70 %  
 Conclusion: -  
 Test: OECD 301 B

Product/substance: 3-iodo-2-propynyl butylcarbamate 3-iodoprop-2-yn-1-yl butylcarbamate  
 Conclusion: Readily biodegradable

Product/substance: terbutryn



Conclusion:	Not biodegradable
Product/substance Conclusion:	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one; 1,2-benzisothiazolin-3-one Readily biodegradable
Product/substance Result: Conclusion: Test:	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) 60 % - OECD 301 D
Product/substance Result: Conclusion: Test:	2-butoxyethanol; ethylene glycol monobutyl ether 88% after 28 dage Readily biodegradable OECD 301 C

### 12.3. Bioaccumulative potential

Product/substance LogKow: Conclusion:	3-iodo-2-propynyl butylcarbamate 3-iodoprop-2-yn-1-yl butylcarbamate 2,8100 No potential for bioaccumulation
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Product/substance LogKow: Conclusion:	terbutryn 3,6900 -
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Product/substance LogKow: Conclusion:	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one; 1,2-benzisothiazolin-3-one 1,3000 No potential for bioaccumulation
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Product/substance BCF: LogKow: Conclusion:	2-butoxyethanol; ethylene glycol monobutyl ether 2,5 0,8000 No potential for bioaccumulation
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### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

### 12.6. Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

### 12.7. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

This product contains substances, which may cause adverse long-term effects to the aquatic environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste. (\*)

HP 14 – Ecotoxic

Dispose of contents/container to an approved waste disposal plant.

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

#### EWC code

08 01 11\* Waste paint and varnish containing organic solvents or other dangerous substances

#### Specific labelling

Not applicable.

#### Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

## SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

\* Packing group

\*\* Environmental hazards

**Additional information**

Not dangerous goods according to ADR, IATA and IMDG.

**14.6. Special precautions for user**

Not applicable.

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

No data available.

**SECTION 15: Regulatory information**

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

**Restrictions for application**

No special.

**Demands for specific education**

No specific requirements.

**SEVESO - Categories / dangerous substances**

Not applicable.

**Regulation on work involving coded products**

Code number (1993): 00-1

**Additional information**

Not applicable.

**Sources**

Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products.

Executive Order no. 1369 of 25 November 2015 on the marketing and labeling of volatile organic compounds in certain paints and varnishes as well as products for car repair painting.

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

Arbejdstilsynets bekendtgørelse nr. 301 af 13. maj 1993 om fastsættelse af kodenumre med senere ændringer.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

**15.2. Chemical safety assessment**

No

**SECTION 16: Other information**

**Full text of H-phrases as mentioned in section 3**

H314, Corrosive to the respiratory tract.

H225, Highly flammable liquid and vapour.

H226, Flammable liquid and vapour.

H272, May intensify fire; oxidiser.

H290, May be corrosive to metals.

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.  
H332, Harmful if inhaled.  
H335, May cause respiratory irritation.  
H336, May cause drowsiness or dizziness.  
H341, Suspected of causing genetic defects.  
H350, May cause cancer.  
H361, Suspected of damaging fertility or the unborn child.  
H361f, Suspected of damaging fertility.  
H361fd, Suspected of damaging fertility or 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.  
H412, Harmful to aquatic life with long lasting effects.  
H413, May cause long lasting harmful effects to aquatic life.

#### Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway  
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
CAS = Chemical Abstracts Service  
CE = Conformité Européenne (European conformity)  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
CSA = Chemical Safety Assessment  
CSR = Chemical Safety Report  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
EINECS = European Inventory of Existing Commercial chemical Substances  
ES = Exposure Scenario  
EUH statement = CLP-specific Hazard statement  
EuPCS = European Product Categorisation System  
EWC = European Waste Catalogue  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
GWP = Global warming potential  
IARC = International Agency for Research on Cancer (IARC)  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
OECD = Organisation for Economic Co-operation and Development  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
RRN = REACH Registration Number  
SCL = A specific concentration limit  
SVHC = Substances of Very High Concern  
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
STOT-SE = Specific Target Organ Toxicity - Single Exposure  
TWA = Time weighted average  
UN = United Nations  
UVBC = Unknown or variable composition, complex reaction products or of biological materials  
VOC = Volatile Organic Compound  
vPvB = Very Persistent and Very Bioaccumulative

#### Additional information

The classification of the substance/mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP).



According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

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The safety data sheet is validated by

MIJ

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: DK-en