



SAFETY DATA SHEET

757 Emulsionsmaling

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

1.1. Product identifier

Trade name

757 Emulsionsmaling

Product no.

757xxx

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

Relevant identified uses of the substance or mixture

Facademaling

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

E-mail

miljo@bj.dk

Revision

28/08/2024

SDS Version

1.0

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

Classified according to Regulation (EC) No. 1272/2008 (CLP).

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
 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one;1,2-benzisothiazolin-3-one
 terbutryn
 reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Additional labelling

This paint contains a biocidal product for the preservation of the dry film.

Active substance(s):

bronopol (INN);2-bromo-2-nitropropane-1,3-diol (0.0313 g/100g)
 3-iodo-2-propynyl butylcarbamate 3-iodoprop-2-yn-1-yl butylcarbamate (0.0194 g/100g)
 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one;1,2-benzisothiazolin-3-one (0.0144 g/100g)
 reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (0.00164 g/100g)

VOC

VOC content: 1 g/L
 MAXIMUM VOC CONTENT (Phase II, category A/c (WB): 40 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% | | |
| Quartz (SiO ₂) | CAS No.: 14808-60-7 EC No.: 238-878-4 REACH: 01-2120770509-45-XXXX Index No.: | 5-10% | | |
| Alkyd resin | CAS No.: 63148-69-6 EC No.: 639-829-3 REACH: Index No.: | 5-10% | | |
| 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 | CAS No.: 55406-53-6 | <0.05% | Acute Tox. 4, H302 (ATE: 1056.00) | |

| | | | |
|---|--|--------|--|
| butylcarbamate 3-iodoprop-2-yn-1-yl butylcarbamate | EC No.: 259-627-5 REACH: Index No.: 616-212-00-7 | | 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) |
| 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-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 | <0.05% | 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) |
| 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) |
| 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 | <0.01% | 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

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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

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

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

None known.

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.

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/m³): 6
 Short term exposure limit (15 minutes) (mg/m³): 12

Quartz (SiO₂)
 Long term exposure limit (8 hours) (mg/m³): 0,1(respirabel) / 0,3(total)
 Short term exposure limit (15 minutes) (mg/m³): 0,2(respirabel) / 0,6(total)
 Annotations:
 E = Substance has an EC limit.

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

Quartz (SiO₂) is included in the national list of substances suspected of causing cancer

BEK no. 290 of 19/03/2024 on measures to prevent the risk when working with carcinogenic, mutagenic or reproductively toxic substances and materials.

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 ³ |
| Long term – Systemic effects - Workers | Inhalation | 6.81 mg/m ³ |

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

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

propylidyntrimethanol

| Duration: | Route of exposure: | DNEL: |
|---|--------------------|-----------------------|
| 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 ³ |

| | | |
|---|------------|-----------------------|
| Long term – Systemic effects - Workers | Inhalation | 3.3 mg/m ³ |
| 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)

| Duration: | Route of exposure: | DNEL: |
|--|---------------------------|----------------------|
| Long term – Local effects - General population | Inhalation | 20 µg/m ³ |
| Long term – Local effects - Workers | Inhalation | 20 µg/m ³ |
| Short term – Local effects - General population | Inhalation | 40 µg/m ³ |
| Short term – Local effects - Workers | Inhalation | 40 µg/m ³ |
| 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

| Duration: | Route of exposure: | DNEL: |
|---|---------------------------|----------------------|
| Long term – Local effects - Workers | Inhalation | 10 mg/m ³ |
| 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

| Route of exposure: | Duration of Exposure: | PNEC: |
|---------------------------|------------------------------|--------------|
| 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

| Route of exposure: | Duration of Exposure: | PNEC: |
|-------------------------------------|------------------------------|--------------|
| 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 |

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 |

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 |

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

| | | |
|---------------------------|------------------------------|--------------|
| 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

| Work situation | Type | Class | Colour | Standards | |
|-------------------------|-------------------------|-----------|-------------|-----------|---|
| Non industrial spraying | Combination filter A2P3 | Class 2/3 | Brown/White | EN14387 |  |

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 | > 60 | 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

White

Odour / Odour threshold

Characteristic

pH

8,2 - 8,8

Density (g/cm³)

1,40 - 1,42 (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 | 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 | 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) ·

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: 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 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, Lepomis macrochirus
 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, Oncorhynchus mykiss
 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, Anabaena flos-aquae
 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 | 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: | EC50 |
| Result: | 0,055 mg/l · |
| Product/substance | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one; 1,2-benzisothiazolin-3-one |
| Species: | Daphnia |
| Duration: | 48 hours |

| | |
|-------------------|---|
| Test: | EC50 |
| Result: | 2,94 mg/l · |
| Product/substance | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one;1,2-benzisothiazolin-3-one |
| Species: | Algae |
| Duration: | 24 hours |
| Test: | EC50 |
| Result: | 0,11 mg/l · |
| Product/substance | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one;1,2-benzisothiazolin-3-one |
| Species: | Fish |
| Duration: | No data available. |
| Test: | NOEC |
| Result: | 0,21 mg/l · |
| Product/substance | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one;1,2-benzisothiazolin-3-one |
| Species: | Daphnia |
| Duration: | 21 days |
| Test: | NOEC |
| Result: | 1,2 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 | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) |
| Test method: | OECD 201 |
| Species: | Algae, Pseudokirchneriella subcapitata |
| Compartment: | Water |
| Duration: | 72 hours |
| Test: | EC50 |

| | |
|-------------------|---|
| Result: | 0,048 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 202 |
| Species: | Daphnia, Daphnia magna |
| Compartment: | Water |
| Duration: | 48 hours |
| Test: | EC50 |
| Result: | 0,1 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 201 |
| Species: | Algae, Skeletonema costatum |
| Compartment: | Water |
| Duration: | 48 hours |
| Test: | EC50 |
| Result: | 0,0052 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 203 |
| Species: | Fish, Oncorhynchus mykiss |
| Compartment: | Water |
| Duration: | 96 hours |
| Test: | LC50 |
| Result: | 0,22 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 211 |
| Species: | Daphnia, Daphnia magna |
| Compartment: | Water |
| Duration: | 21 days |
| Test: | NOEC |
| Result: | 0,004 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 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 |

Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

| | |
|-------------------|---|
| 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 | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one;1,2-benzisothiazolin-3-one |
| Conclusion: | Readily biodegradable |
| Product/substance | terbutryn |

| | |
|-------------------|---|
| Conclusion: | Not biodegradable |
| Product/substance | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) |
| Result: | 60 % |
| Conclusion: | - |
| Test: | OECD 301 D |

12.3. Bioaccumulative potential

| | |
|-------------------|--|
| Product/substance | 3-iodo-2-propynyl butylcarbamate 3-iodoprop-2-yn-1-yl butylcarbamate |
| LogKow: | 2,8100 |
| Conclusion: | No potential for bioaccumulation |

| | |
|-------------------|--|
| Product/substance | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one; 1,2-benzisothiazolin-3-one |
| LogKow: | 1,3000 |
| Conclusion: | No potential for bioaccumulation |

| | |
|-------------------|-----------|
| Product/substance | terbutryn |
| LogKow: | 3,6900 |
| Conclusion: | - |

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, 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.

Biocidal Products Regulations

Product type: PT7 - Film preservative

Restrictions on use

-

Directions for use and dose rate

-

Additional information

-

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

H301, Toxic if swallowed.

H302, Harmful if swallowed.

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.

H331, Toxic if inhaled.

H335, May cause respiratory irritation.

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.

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).

The safety data sheet is validated by

MVP

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