



SAFETY DATA SHEET

775 Grafital Vandig

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

1.1. Product identifier

▼ Trade name
775 Grafital Vandig

Product no.
775208

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

Relevant identified uses of the substance or mixture
Acrylmaling med rustik, metalliserende overflade

▼ 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
3.0

Date of previous version
28/06/2022 (2.0)

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

Not classified according to Regulation (EC) No. 1272/2008 (CLP).

2.2. Label elements

▼ Hazard pictogram(s)
Not applicable.

▼ Signal word
Not applicable.

▼ Hazard statement(s)
Not applicable.

Precautionary statement(s)

General

-

Prevention

-

Response

-
Storage

-
Disposal

▼ Hazardous substances

bronopol (INN);2-bromo-2-nitropropane-1,3-diol
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.
EUH210, Safety data sheet available on request.
The product contains a biocidal product.

▼ VOC

VOC content: 88 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
propane-1,2-diol	CAS No.: 57-55-6 EC No.: 200-338-0 REACH: 01-2119456809-23-XXXX Index No.:	5-10%		
Quartz (SiO ₂)	CAS No.: 14808-60-7 EC No.: 238-878-4 REACH: 01-2120770509-45-XXXX Index No.:	5-10%		
Aluminiumpulver (stabiliseret)	CAS No.: 7429-90-5 EC No.: 231-072-3 REACH: Index No.: 013-001-00-6	3-5%	Flam. Sol. 1, H228 Water-react. 2, H261	
2-(2-butoxyethoxy)ethanol	CAS No.: 112-34-5 EC No.: 203-961-6 REACH: 01-2119475104-44 Index No.: 603-096-00-8	<1%	Eye Irrit. 2, H319	[1], [3]
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)	
1,2-benzisothiazol-3(2H)-one;	CAS No.: 2634-33-5	<0.01%	Acute Tox. 4, H302	

1,2-benzisothiazolin-3-one; 1,2-benzisothiazolin-3-one	EC No.: 220-120-9 REACH: 01-2120761540-60-XXXX Index No.: 613-088-00-6		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)
methylmethacrylat	CAS No.: 80-62-6 EC No.: 201-297-1 REACH: Index No.:	<0.0015%	

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.

[3] According to REACH, Annex XVII, the substance is subject to restrictions.

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:

Carbon oxides (CO / CO₂)

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.

Fire fighters should wear appropriate personal protective equipment.

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.

Keep unauthorized persons away from the spill

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

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

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.

Kaolin

Long term exposure limit (8 hours) (mg/m³): 2 (respirabel)

Short term exposure limit (15 minutes) (mg/m³): 4 (respirabel)

Aluminiumpulver (stabiliseret)

Long term exposure limit (8 hours) (mg/m³): 5 (pulver og støv, total) / 2 (pulver og støv, respirabel) / 2 (alkyler, som Al) / 1 (opløselige salte, som Al)

Short term exposure limit (15 minutes) (mg/m³): 10 (pulver og støv, total) / 4 (pulver og støv, respirabel) / 4 (alkyler, som Al) / 2 (opløselige salte, som Al)

2-(2-butoxyethoxy)ethanol

Long term exposure limit (8 hours) (mg/m³): 68

Long term exposure limit (8 hours) (ppm): 10

Short term exposure limit (15 minutes) (mg/m³): 101

Short term exposure limit (15 minutes) (ppm): 15

Annotations:

E = Substance has an EC limit.

2,2',2''-nitrilotriethanol

Long term exposure limit (8 hours) (mg/m³): 3,1

Long term exposure limit (8 hours) (ppm): 0,5

Short term exposure limit (15 minutes) (mg/m³): 6,2

Short term exposure limit (15 minutes) (ppm): 1

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

2-(2-butoxyethoxy)ethanol

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	50 mg/kg/d
Long term – Systemic effects - Workers	Dermal	83 mg/kg/d
Long term – Local effects - General population	Inhalation	40,5 mg/m ³
Long term – Local effects - Workers	Inhalation	67,5 mg/m ³
Long term – Systemic effects - General population	Inhalation	40,5 mg/m ³
Long term – Systemic effects - Workers	Inhalation	67,5 mg/m ³
Short term – Local effects - General population	Inhalation	60,7 mg/m ³
Short term – Local effects - Workers	Inhalation	101,2 mg/m ³
Long term – Systemic effects - General population	Oral	5 mg/kg/d

Aluminiumpulver (stabiliseret)

Duration:	Route of exposure:	DNEL:
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Long term – Local effects - Workers	Inhalation	3.72 mg/m ³
Long term – Systemic effects - Workers	Inhalation	3.72 mg/m ³
Long term – Systemic effects - General population	Oral	3.95 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 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

propane-1,2-diol

Duration:	Route of exposure:	DNEL:
Long term – Local effects - General population	Inhalation	10 mg/m ³
Long term – Local effects - Workers	Inhalation	10 mg/m ³
Long term – Systemic effects - General population	Inhalation	50 mg/m ³
Long term – Systemic effects - Workers	Inhalation	168 mg/m ³

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

▼ PNEC

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
2-(2-butoxyethoxy)ethanol		
Route of exposure:	Duration of Exposure:	PNEC:
Freshwater	-	1,1 mg/l
Freshwater sediment	-	4,4 mg/kg
Intermittent release	-	11 mg/l
Marine water	-	0,11 mg/l
Marine water sediment	-	0,44 mg/kg
Sewage treatment plant	-	200 mg/l
Soil	-	0,32 mg/kg
Aluminiumpulver (stabiliseret)		
Route of exposure:	Duration of Exposure:	PNEC:
Sewage treatment plant		20 mg/L
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
propane-1,2-diol		
Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		260 mg/L
Freshwater sediment		572 mg/kg
Intermittent release (freshwater)		183 mg/L
Marine water		26 mg/L
Marine water sediment		57.2 mg/kg
Sewage treatment plant		20 g/L
Soil		50 mg/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

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

No specific requirements.


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	> 240	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

Gray

Odour / Odour threshold

Characteristic

pH

8 - 9

▼ Density (g/cm³)

1,13 - 1,15 (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)

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▼ 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 propane-1,2-diol
 Species: Rat
 Route of exposure: Oral
 Test: LD50
 Result: 22000 mg/kg ·

Product/substance propane-1,2-diol
 Species: Rabbit
 Route of exposure: Dermal
 Test: LD50
 Result: 2000 mg/kg ·

Product/substance propane-1,2-diol
 Species: Rabbit
 Route of exposure: Inhalation
 Test: LC50
 Result: 317 mg/l ·

Product/substance 2-(2-butoxyethoxy)ethanol
 Species: Rat
 Route of exposure: Oral
 Test: LD50
 Result: 5660 mg/kg ·

Product/substance 2-(2-butoxyethoxy)ethanol
 Species: Rabbit
 Route of exposure: Dermal
 Test: LD50
 Result: 2700 mg/kg ·

Product/substance 2-(2-butoxyethoxy)ethanol
 Species: Mouse
 Route of exposure: Oral
 Test: LD50
 Result: 2400 mg/kg ·

Product/substance 2,2',2''-nitrilotriethanol
 Species: Rat
 Route of exposure: Oral
 Test: LD50
 Result: 5530 mg/kg ·

Product/substance 2,2',2''-nitrilotriethanol
 Species: Rabbit
 Route of exposure: Dermal
 Test: LD50
 Result: > 22500 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: 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: 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: 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

2,2',2"-nitrioltriethanol has been classified by IARC as a group 3 carcinogen.

SECTION 12: Ecological information

12.1. ▼ Toxicity

Product/substance propane-1,2-diol
 Species: Fish
 Duration: 96 hours
 Test: LC50
 Result: > 40613 mg/l ·

Product/substance propane-1,2-diol
 Species: Daphnia
 Duration: 48 hours
 Test: EC50
 Result: 18800 mg/l ·

Product/substance propane-1,2-diol
 Species: Algae
 Duration: 96 hours
 Test: EC50
 Result: 19000 mg/l ·

Product/substance propane-1,2-diol
 Species: Algae
 Duration: 72 hours
 Test: EC50
 Result: 24200 mg/l ·

Product/substance 2-(2-butoxyethoxy)ethanol
 Species: Fish
 Duration: 96 hours
 Test: LC50
 Result: 2700 mg/l ·

Product/substance 2-(2-butoxyethoxy)ethanol
 Species: Daphnia
 Duration: 48 hours
 Test: LC50
 Result: 1000 mg/l ·

Product/substance 2-(2-butoxyethoxy)ethanol
 Species: Algae
 Duration: 96 hours
 Test: EC50
 Result: 100 mg/l ·

Product/substance 2,2',2''-nitrilotriethanol
 Species: Fish
 Duration: 96 hours
 Test: LC50
 Result: > 100 mg/l ·

Product/substance 2,2',2''-nitrilotriethanol
 Species: Daphnia
 Duration: 48 hours
 Test: EC50
 Result: > 100 mg/l ·

Product/substance 2,2',2''-nitrilotriethanol
 Species: Algae
 Duration: 72 hours
 Test: EC50
 Result: > 100 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	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	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

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

12.2. ▼ Persistence and degradability

Product/substance propane-1,2-diol
 Result: BOD5/COD > 0,5
 Conclusion: Readily biodegradable

Product/substance 2,2',2''-nitrilotriethanol
 Result: 70%
 Conclusion: Readily biodegradable
 Test: OECD 301 D

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

Product/substance 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one;1,2-benzisothiazolin-3-one
 Conclusion: Readily 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 propane-1,2-diol
 BCF: 0,09
 LogKow: -1,4000
 Conclusion: No potential for bioaccumulation

Product/substance 2,2',2''-nitrilotriethanol
 LogKow: -2,5300
 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

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**

None known.

SECTION 13: Disposal considerations

13.1. ▼ **Waste treatment methods**

Product is not covered by regulations on dangerous waste.
 Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

▼ **EWC code**

08 01 12 Waste paint and varnish other than those mentioned in 08 01 11

▼ **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 explosives precursors**

Aluminiumpulver (stabiliseret) (Annex II)

▼ **REACH, Annex XVII**

2-(2-butoxyethoxy)ethanol is subject to REACH restrictions (entry 55).

Aluminiumpulver (stabiliseret) is subject to REACH restrictions (entry 40).

▼

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.

Council Regulation (EC) No 2019/1148 on explosives precursors.

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

H228, Flammable solid.

H261, In contact with water releases flammable gases.

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.

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**

Not applicable.

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