

SAFETY DATA SHEET

Nowocoat

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

1.1. Product identifier

Trade name

Nowocoat

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

Relevant identified uses of the substance or mixture

Roof paint

Uses advised against

None known.

1.3. Details of the supplier of the safety data sheet

Company and address

NOWOCOAT INDUSTRIAL A/S

Stålvvej 3

6000 Kolding

Denmark

Tel: +45 7550 1111

E-mail

mail@nowocoat.dk

Revision

19/09/2022

SDS Version

1.0

1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h 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)

Safety statement(s)

General

-

Prevention

Avoid release to the environment. (P273)

Response

-

Storage

-

Disposal

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

Dispose of contents/container to an approved waste disposal plant. (P501)

Hazardous substances

None known.

Additional labelling

EUH208, Contains 1,2-Benzisothiazol-3(2H)-one, Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (3:1), 2-Octyl-2H-isothiazol-3-one. May produce an allergic reaction.

EUH211, Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. The product contains a biocidal product.

2.3. Other hazards

Additional warnings

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

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.

VOC

VOC content: <40 g/L

MAXIMUM VOC CONTENT (Phase II, category A/c (WB): 40 g/L)

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
Titanium dioxide	CAS No.: 13463-67-7 EC No.: 236-675-5 UK-REACH: Index No.: 022-006-00-2	0-25%	Carc. 2, H351	
2-(2-Butoxyethoxy)ethanol	CAS No.: 112-34-5 EC No.: 203-961-6 UK-REACH: Index No.: 603-096-00-8	1-3%	Eye Irrit. 2, H319	[1], [3]
Bronopol (INN)	CAS No.: 52-51-7 EC No.: 200-143-0 UK-REACH: Index No.: 603-085-00-8	<0.05%	Acute Tox. 4, H302 (ATE: 193.00 mg/kg) Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 1.00 %) STOT SE 3, H335 Aquatic Acute 1, H400 (M=10)	
2-Butoxyethanol	CAS No.: 111-76-2 EC No.: 203-905-0 UK-REACH: Index No.: 603-014-00-0	<0.05%	Acute Tox. 4, H302 (ATE: 1414.00 mg/kg) Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 4, H332	
1,2-Benzisothiazol-3(2H)-one	CAS No.: 2634-33-5 EC No.: 220-120-9	<0.05%	Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 (SCL: 0.05 %) Eye Dam. 1, H318	

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

	UK-REACH: Index No.: 613-088-00-6		Aquatic Acute 1, H400 (M=1)
Pyrithione zinc	CAS No.: 13463-41-7 EC No.: 236-671-3 UK-REACH: Index No.:	<0.01%	Acute Tox. 3, H301 (ATE: 221.00 mg/kg) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 1.00 %) Acute Tox. 3, H331 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=10)
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (3:1)	CAS No.: 55965-84-9 EC No.: UK-REACH: Index No.: 613-167-00-5	<0.0015%	EUH071 Acute Tox. 3, H301 Acute Tox. 2, H310 Skin Corr. 1C, H314 (SCL: 0.60 %) Skin Irrit. 2, H315 (SCL: 0.06 %) Skin Sens. 1A, H317 (SCL: 0.0015 %) Eye Dam. 1, H318 (SCL: 0.60 %) Eye Irrit. 2, H319 (SCL: 0.06 %) Acute Tox. 2, H330 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)
2-Octyl-2H-isothiazol-3-one	CAS No.: 26530-20-1 EC No.: 247-761-7 UK-REACH: Index No.: 613-112-00-5	<0.0015%	EUH071 Acute Tox. 3, H301 (ATE: 125.00 mg/kg) Acute Tox. 3, H311 (ATE: 311.00 mg/kg) Skin Corr. 1, H314 Skin Sens. 1A, H317 (SCL: 0.0015 %) Eye Dam. 1, H318 Acute Tox. 2, H330 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)

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 UK 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

Upon irritation of the eye: Remove contact lenses and open eyes widely. Flush eyes with water or saline water (20-30°C) for at least 5 minutes. Seek medical assistance and continue flushing during transport.

Ingestion

Provide plenty of water for the person to drink and stay with him/her. 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 victim 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

This product contains substances that may trigger an allergic reaction in already sensitized persons.

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

None known.

Information to medics

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Not applicable.

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:

Sulphur oxides

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 National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No specific requirements.

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

Use sand, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials 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.

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

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 temperature

No specific requirements

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

— Titanium dioxide
Long term exposure limit (8 hours) (mg/m³): 10(inhalable)/4(respirable)

— Barium sulfate
Long term exposure limit (8 hours) (mg/m³): 10(inhalable)/4(respirable)

— Talc (Mg₃H₂(SiO₃)₄)
Long term exposure limit (8 hours) (mg/m³): 1

— Mica
Long term exposure limit (8 hours) (mg/m³): 10(inhalable)/0,8(respirable)

— 2-(2-Butoxyethoxy)ethanol
Long term exposure limit (8 hours) (ppm): 10
Long term exposure limit (8 hours) (mg/m³): 67,5
Short term exposure limit (15 minutes) (ppm): 15
Short term exposure limit (15 minutes) (mg/m³): 101,2

— Propane-1,2-diol
Long term exposure limit (8 hours) (ppm): 150(total)
Long term exposure limit (8 hours) (mg/m³): 474(total)/10(particulates)

— Quartz (SiO₂)
Long term exposure limit (8 hours) (mg/m³): 0,1 (respirable fraction)

Annotations:

Carc = Capable of causing cancer and/or heritable genetic damage.

— Titanium dioxide
Long term exposure limit (8 hours) (mg/m³): 10(inhalable)/4(respirable)

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002.
EH40/2005 Workplace exposure limits (Fourth Edition 2020).

DNEL

2-(2-Butoxyethoxy)ethanol

Duration	Route of exposure	DNEL
Long term – Systemic effects - General population	Dermal	50 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	83 mg/kg bw/day

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

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 bw/day

Barium sulfate

Duration	Route of exposure	DNEL
Long term – Local effects - Workers	Inhalation	10 mg/m ³
Long term – Systemic effects - General population	Inhalation	10 mg/m ³
Long term – Systemic effects - Workers	Inhalation	10 mg/m ³
Long term – Systemic effects - General population	Oral	13000 mg/kg bw/day

Bronopol (INN)

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	0.7 mg/kg bw/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	0,6 mg/m ³
Long term – Local effects - Workers	Inhalation	2.5 mg/m ³
Long term – Systemic effects - General population	Inhalation	0.6 mg/m ³
Long term – Systemic effects - Workers	Inhalation	3.5 mg/m ³
Short term – Local effects - General population	Inhalation	0.6 mg/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	0.18 mg/kg bw/day
Short term – Systemic effects - General population	Oral	0.5 mg/kg bw/day

Propane-1,2-diol

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

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

Pyrithione zinc

Duration	Route of exposure	DNEL
Long term – Systemic effects - Workers	Dermal	0.01 mg/kg bw/day

Talc (Mg₃H₂(SiO₃)₄)

Duration	Route of exposure	DNEL
Long term – Local effects - General population	Dermal	2.27 mg/cm ²
Long term – Local effects - Workers	Dermal	4.54 mg/cm ²
Long term – Systemic effects - General population	Dermal	21.6 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	43.2 mg/kg bw/day
Long term – Local effects - General population	Inhalation	1.8 mg/m ³
Long term – Local effects - Workers	Inhalation	3.6 mg/m ³
Long term – Systemic effects - General population	Inhalation	1.08 mg/m ³
Long term – Systemic effects - Workers	Inhalation	2.16 mg/m ³
Short term – Local effects - General population	Inhalation	1.8 mg/m ³
Short term – Local effects - Workers	Inhalation	3.6 mg/m ³
Short term – Systemic effects - General population	Inhalation	1.08 mg/m ³
Short term – Systemic effects - Workers	Inhalation	2.16 mg/m ³
Long term – Systemic effects - General population	Oral	160 mg/kg bw/day

Titanium dioxide

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

PNEC

2-(2-Butoxyethoxy)ethanol

Route of exposure	Duration of Exposure	PNEC
Freshwater	Single	1,1 mg/L
Intermittent release	Continuous	11 mg/L

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

Marine water	Single	0.11 mg/L
Soil	Single	0.32 mg/kg soil dw

2-Octyl-2H-isothiazol-3-one

Route of exposure	Duration of Exposure	PNEC
Freshwater	Single	2.2 µg/L
Intermittent release	Continuous	1.22 µg/L - 0.122 µg/L
Marine water	Single	0.22 µg/L
Soil	Single	8.2 µg/kg soil dw

Barium sulfate

Route of exposure	Duration of Exposure	PNEC
Freshwater	Single	115 µg/L
Soil	Single	207.7 mg/kg soil dw

Bronopol (INN)

Route of exposure	Duration of Exposure	PNEC
Freshwater	Single	0.01 mg/L
Intermittent release	Continuous	0.003 mg/L
Marine water	Single	0.001 mg/L
Soil	Single	0.5 mg/kg soil dw

Propane-1,2-diol

Route of exposure	Duration of Exposure	PNEC
Freshwater	Single	260 mg/L
Intermittent release	Continuous	183 mg/L
Marine water	Single	26 mg/L
Soil	Single	50 mg/kg soil dw

Pyrethione zinc

Route of exposure	Duration of Exposure	PNEC
Freshwater	Single	90 ng/L
Marine water	Single	90 ng/L
Soil	Single	1.02 mg/kg soil dw

Talc (Mg₃H₂(SiO₃)₄)

Route of exposure	Duration of Exposure	PNEC
Freshwater	Single	597.97 mg/L
Intermittent release	Continuous	141.26 mg/L - 597.97 mg/L

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

Marine water	Single	141.26 mg/L
Titanium dioxide		
Route of exposure	Duration of Exposure	PNEC
Freshwater	Single	184 µg/L
Freshwater	Single	184 µg/L
Intermittent release	Continuous	193 µg/L
Intermittent release	Continuous	193 µg/L
Marine water	Single	18.4 µg/L
Marine water	Single	18.4 µg/L
Soil	Single	100 mg/kg soil dw
Soil	Single	100 mg/kg soil dw

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

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

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and -showers are clearly marked.

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. Always wash hands, forearms and face.

Measures to avoid environmental exposure

No specific requirements.

Individual protection measures, such as personal protective equipment

Generally

Use only UKCA marked protective equipment.

Respiratory Equipment

No specific requirements

Skin protection

No specific requirements.

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

Testing not relevant or not possible due to the nature of the product.

pH

Testing not relevant or not possible due to the nature of the product.

Density (g/cm³)

1,0 - 1,3

Kinematic viscosity

Testing not relevant or not possible due to the nature of the product.

Particle characteristics

Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C)

Testing not relevant or not possible due to the nature of the product.

Softening point/range (waxes and pastes) (°C)

Does not apply to liquids.

Boiling point (°C)

Testing not relevant or not possible due to the nature of the product.

Vapour pressure

Testing not relevant or not possible due to the nature of the product.

Relative vapour density

Testing not relevant or not possible due to the nature of the product.

Decomposition temperature (°C)

Testing not relevant or not possible due to the nature of the product.

Data on fire and explosion hazards

Flash point (°C)

Testing not relevant or not possible due to the nature of the product.

Ignition (°C)

Testing not relevant or not possible due to the nature of the product.

Auto flammability (°C)

Testing not relevant or not possible due to the nature of the product.

Lower and upper explosion limit (% v/v)

Testing not relevant or not possible due to the nature of the product.

Solubility

Solubility in water

Completely soluble

n-octanol/water coefficient

Testing not relevant or not possible due to the nature of the product.

Solubility in fat (g/L)

Testing not relevant or not possible due to the nature of the product.

9.2. Other information

VOC (g/L)

<40

Other physical and chemical parameters

No data available.

SECTION 10: Stability and reactivity

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

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	Titanium dioxide
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	5000 mg/kgbw
Other information	

Product/substance	Titanium dioxide
Test method	
Species	Rat
Route of exposure	Inhalation
Test	LC50
Result	3.43 - 6.82 (4 h) mg/L
Other information	

Product/substance	Barium sulfate
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	307 g/kg
Other information	

Product/substance	Talc (Mg ₃ H ₂ (SiO ₃) ₄)
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	> 5000 mg/kgbw
Other information	

Product/substance	2-(2-Butoxyethoxy)ethanol
Test method	
Species	Mouse
Route of exposure	Oral

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

Test LD50
 Result 2410 mg/kgbw
 Other information

Product/substance 2-(2-Butoxyethoxy)ethanol
 Test method
 Species Rabbit
 Route of exposure Dermal
 Test LC50
 Result 2764 mg/kgbw
 Other information

Product/substance Propane-1,2-diol
 Test method
 Species Rat
 Route of exposure Oral
 Test LD50
 Result 22000 mg/kg bw ·
 Other information

Product/substance Propane-1,2-diol
 Test method
 Species Rabbit
 Route of exposure Dermal
 Test LD50
 Result 2000 mg/kg bw ·
 Other information

Product/substance Titanium dioxide
 Test method
 Species Rat
 Route of exposure Oral
 Test LD50
 Result 5000 mg/kgbw
 Other information

Product/substance Titanium dioxide
 Test method
 Species Rat
 Route of exposure Inhalation
 Test LC50
 Result 3.43 - 6.82 (4 h) mg/L
 Other information

Product/substance Bronopol (INN)
 Test method
 Species Rat
 Route of exposure Oral
 Test LD50
 Result 193 mg/kgbw
 Other information

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

Product/substance	Pyrrithione zinc
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	221 mg/kgbw
Other information	

Product/substance	Pyrrithione zinc
Test method	
Species	Rat
Route of exposure	Dermal
Test	LD50
Result	> 2000 mg/kgbw
Other information	

Product/substance	2-Octyl-2H-isothiazol-3-one
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	125 mg/L
Other information	

Product/substance	2-Octyl-2H-isothiazol-3-one
Test method	
Species	Rabbit
Route of exposure	Dermal
Test	LD50
Result	311 mg/kgbw
Other information	

Product/substance	2-Octyl-2H-isothiazol-3-one
Test method	
Species	Rat
Route of exposure	Inhalation
Test	LC50 (4 hours)
Result	0,27 mg/L
Other information	

Skin corrosion/irritation

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

Serious eye damage/irritation

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

Respiratory sensitisation

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

Skin sensitisation

This product contains substances that may trigger an allergic reaction in already sensitized persons.

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

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

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

None known.

Other information

Titanium dioxide has been classified by IARC as a group 2B carcinogen.

Talc ($Mg_3H_2(SiO_3)_4$) has been classified by IARC as a group 2B / 3 (Talc not containing asbestos or asbestiform fibres) carcinogen.

Quartz (SiO_2) has been classified by IARC as a group 1 carcinogen.

Titanium dioxide has been classified by IARC as a group 2B carcinogen.

SECTION 12: Ecological information

12.1. Toxicity

Product/substance	Titanium dioxide
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	155 - 294 mg/L
Other information	

Product/substance	Titanium dioxide
Test method	
Species	Daphnia
Compartment	
Duration	48 hours
Test	LC50
Result	500 mg/L
Other information	

Product/substance	Titanium dioxide
Test method	
Species	Algae
Compartment	
Duration	72 hours
Test	EC50
Result	100 mg/L
Other information	

Product/substance	Barium sulfate
Test method	
Species	Fish
Compartment	

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

Duration 96 hours
 Test LC50
 Result > 3.5 mg/L
 Other information

Product/substance Barium sulfate
 Test method
 Species Daphnia
 Compartment
 Duration 48 hours
 Test LC50
 Result 14.5 mg/L
 Other information

Product/substance Barium sulfate
 Test method
 Species Algae
 Compartment
 Duration 72 hours
 Test EC50
 Result > 1.15 mg/L
 Other information

Product/substance 2-(2-Butoxyethoxy)ethanol
 Test method
 Species Fish
 Compartment
 Duration 96 hours
 Test LC50
 Result 1300 mg/L
 Other information

Product/substance 2-(2-Butoxyethoxy)ethanol
 Test method
 Species Daphnia
 Compartment
 Duration 48 hours
 Test EC50
 Result > 100 mg/L
 Other information

Product/substance 2-(2-Butoxyethoxy)ethanol
 Test method
 Species Algae
 Compartment
 Duration 96 hours
 Test EC50
 Result > 100 mg/L
 Other information

Product/substance Propane-1,2-diol
 Test method

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

Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	40.613 g/L ·
Other information	

Product/substance	Propane-1,2-diol
Test method	
Species	
Compartment	
Duration	48 hours
Test	LC50
Result	18340 mg/l ·
Other information	

Product/substance	Propane-1,2-diol
Test method	
Species	
Compartment	
Duration	72 hours
Test	EC50
Result	19300 mg/l ·
Other information	

Product/substance	Propane-1,2-diol
Test method	
Species	Daphnia
Compartment	
Duration	48 hours
Test	LC50
Result	18.34 g/L ·
Other information	

Product/substance	Propane-1,2-diol
Test method	
Species	Algae
Compartment	
Duration	72 hours
Test	EC50
Result	19.3 - 24.2 g/L ·
Other information	

Product/substance	Titanium dioxide
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	155 - 294 mg/L
Other information	

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

Product/substance	Titanium dioxide
Test method	
Species	Daphnia
Compartment	
Duration	48 hours
Test	LC50
Result	500 mg/L
Other information	

Product/substance	Titanium dioxide
Test method	
Species	Algae
Compartment	
Duration	72 hours
Test	EC50
Result	100 mg/L
Other information	

Product/substance	Bronopol (INN)
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	35,7 mg/L
Other information	

Product/substance	Bronopol (INN)
Test method	
Species	Daphnia
Compartment	
Duration	48 hours
Test	EC50
Result	1,4 mg/L
Other information	

Product/substance	Bronopol (INN)
Test method	
Species	Algae
Compartment	
Duration	72 hours
Test	EC50
Result	0,25 mg/L
Other information	

Product/substance	Pyrrithione zinc
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	2.6 µg/L

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

Other information

Product/substance	Pyrithione zinc
Test method	
Species	Daphnia
Compartment	
Duration	48 hours
Test	EC50
Result	8.2 µg/L ·
Other information	

Product/substance	Pyrithione zinc
Test method	
Species	Algae
Compartment	
Duration	7 days
Test	EC50
Result	9.6 µg/L ·
Other information	

12.2. Persistence and degradability

Product/substance	2-(2-Butoxyethoxy)ethanol
Biodegradable	Yes
Test method	OECD 301 C
Result	85 %

Product/substance	Propane-1,2-diol
Biodegradable	Yes
Test method	OECD 301 F
Result	106,8 %

Product/substance	Bronopol (INN)
Biodegradable	Yes
Test method	OECD 301 B
Result	70-80 %

12.3. Bioaccumulative potential

Product/substance	2-(2-Butoxyethoxy)ethanol
Test method	
Potential bioaccumulation	No
LogPow	1,0000
BCF	No data available.
Other information	

Product/substance	Propane-1,2-diol
Test method	
Potential bioaccumulation	No
LogPow	-1,0700
BCF	0.09

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

Other information

Product/substance	Bronopol (INN)
Test method	
Potential bioaccumulation	No
LogPow	0,2100
BCF	No data available.
Other information	

Product/substance	Pyrrithione zinc
Test method	
Potential bioaccumulation	No
LogPow	0,9000
BCF	8.28
Other information	

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

12.6. Endocrine disrupting properties

None known.

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 not covered by regulations on dangerous waste.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

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

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

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

People under the age of 18 shall not be exposed to this product.

Must not be used by persons suffering from acrylic dermatitis.

Demands for specific education

No specific requirements.

SEVESO - Categories / dangerous substances

Not applicable.

REACH, Annex XVII

2-(2-Butoxyethoxy)ethanol is subject to restrictions, UK-REACH annex XVII (entry 55).

Additional information

Not applicable.

Sources

In accordance with Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products as retained and amended in UK law.

2012 No. 1715 ENVIRONMENTAL PROTECTION: The Volatile Organic Compounds in Paints, Varnishes and Vehicle Refinishing Products Regulations 2012.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.

Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

EUH071, Corrosive to the respiratory tract.

H301, Toxic if swallowed.

H302, Harmful if swallowed.

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.

H351, Suspected of causing cancer.

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

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

ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CE = Conformité Européenne
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
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
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) as retained and amended in UK law.

The safety data sheet is validated by

AS

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue 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: GB-en