

SAFETY DATA SHEET

111101-001 - NowoMetal Roof Top WB

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

1.1. Product identifier

▼ Trade name

111101-001 - Nowo Metal Roof Top WB

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

Relevant identified uses of the substance or mixture

Paint for metal surfaces

Restricted to professional users.

Uses advised against

None known.

1.3. Details of the supplier of the safety data sheet

Company and address

NOWOCOAT INDUSTRIAL A/S

Ståltevej 3

6000 Kolding

Denmark

Tel: +45 7550 1111

E-mail

mail@nowocoat.dk

Revision

27/09/2023

SDS Version

3.0

Date of previous version

22/09/2023 (2.0)

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

Classified according to Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

2.1. Classification of the substance or mixture

Not classified according to Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

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

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

Hazardous substances

None known.

Additional labelling

EUH208, Contains 2-Methyl-2H-isothiazol-3-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.

EUH210, Safety data sheet available on request.

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

VOC

VOC content: < 30 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 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.

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
Titanium dioxide	CAS No.: 13463-67-7 EC No.: 236-675-5 UK-REACH: Index No.: 022-006-00-2	0-20%	Carc. 2, H351	[17]
Limestone	CAS No.: 1317-65-3 EC No.: 215-279-6 UK-REACH: Index No.:	5-10%		[19]
1-Isopropyl-2,2-dimethyltrimethylene diisobutyrate	CAS No.: 6846-50-0 EC No.: 229-934-9 UK-REACH: Index No.:	1-3%	Aquatic Chronic 3, H412	
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]
2-Butoxyethanol	CAS No.: 111-76-2 EC No.: 203-905-0 UK-REACH: Index No.: 603-014-00-0	1-3%	Acute Tox. 4, H302 (ATE: 1200.00 mg/kg) Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 3, H331	[1]
Ammonia, aqueous solution	CAS No.: 1336-21-6 EC No.: 215-647-6 UK-REACH: Index No.: 007-001-01-2	<0.25%	Skin Corr. 1B, H314 STOT SE 3, H335 (SCL: 5.00 %) Aquatic Acute 1, H400 (M=1)	
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)	
Reaction mass of: 5-chloro-2-	CAS No.: 55965-84-9	<0.0015%	EUH071	

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

methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (3:1)	EC No.:		Acute Tox. 3, H301
	UK-REACH:		Acute Tox. 2, H310
	Index No.:	613-167-00-5	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-Methyl-2H-isothiazol-3-one	CAS No.:	2682-20-4	EUH071
	EC No.:	220-239-6	Acute Tox. 3, H301 (ATE: 120.00 mg/kg)
	UK-REACH:		Acute Tox. 3, H311 (ATE: 242.00 mg/kg)
	Index No.:	613-326-00-9	Skin Corr. 1B, H314
			Skin Sens. 1A, H317 (SCL: 0.0015 %)
			Eye Dam. 1, H318
			Acute Tox. 2, H330
			Aquatic Acute 1, H400 (M=10)
			Aquatic Chronic 1, H410 (M=1)
2-Octyl-2H-isothiazol-3-one	CAS No.:	26530-20-1	EUH071
	EC No.:	247-761-7	Acute Tox. 3, H301 (ATE: 125.00 mg/kg)
	UK-REACH:		Acute Tox. 3, H311 (ATE: 311.00 mg/kg)
	Index No.:	613-112-00-5	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.

[17] The classification as a carcinogen is not taken into consideration when classifying the product as the product is not delivered in powder form/contains less than 1 % titanium dioxide on particle form with an aerodynamic diameter $\leq 10 \mu\text{m}$ (UK-CLP, Annex VI, note 10).

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet.

Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

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

Skin contact

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

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

If skin irritation occurs: Get medical advice/attention.

Eye contact

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

Ingestion

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

drink.

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

Burns

Not applicable.

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

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

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

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

IF exposed or concerned:

Get immediate medical advice/attention.

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

Fire fighters should wear appropriate personal protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation, especially in confined areas.

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

Avoid contact during pregnancy and while nursing.

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 temperature

No specific requirements

Incompatible materials

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

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)

Limestone

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

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

2-Butoxyethanol

Long term exposure limit (8 hours) (ppm): 25

Long term exposure limit (8 hours) (mg/m³): 123

Short term exposure limit (15 minutes) (ppm): 50

Short term exposure limit (15 minutes) (mg/m³): 246

Annotations:

BMVG = Biological Monitoring Guidance Value exists

Sk = Can be absorbed through the skin and lead to systemic toxicity.

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

1-Isopropyl-2,2-dimethyltrimethylene diisobutyrate

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	5 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	5 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	4.35 mg/m ³
Long term – Systemic effects - Workers	Inhalation	17.62 mg/m ³
Long term – Systemic effects - General population	Oral	5 mg/kg bw/day

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
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

2-Butoxyethanol

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

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	75 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	125 mg/kg bw/day
Short term – Systemic effects - General population	Dermal	89 mg/kg bw/day
Short term – Systemic effects - Workers	Dermal	89 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	59 mg/m ³
Long term – Systemic effects - Workers	Inhalation	98 mg/m ³
Short term – Local effects - General population	Inhalation	147 mg/m ³
Short term – Local effects - Workers	Inhalation	246 mg/m ³
Short term – Systemic effects - General population	Inhalation	426 mg/m ³
Short term – Systemic effects - Workers	Inhalation	1091 mg/m ³
Long term – Systemic effects - General population	Oral	6.3 mg/kg bw/day
Short term – Systemic effects - General population	Oral	26.7 mg/kg bw/day
Bronopol (INN)		
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
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

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

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 – Systemic effects - General population	Oral	700 mg/kg bw/day

PNEC

1-Isopropyl-2,2-dimethyltrimethylene diisobutyrate

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater	Single	0.014 mg/L
Marine water	Single	0.001 mg/L
Soil	Single	1.05 mg/kg soil dw

2-(2-Butoxyethoxy)ethanol

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater	Single	1,1 mg/L
Intermittent release	Continuous	11 mg/L
Marine water	Single	0.11 mg/L
Soil	Single	0.32 mg/kg soil dw

2-Butoxyethanol

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater	Single	8.8 mg/L
Intermittent release	Continuous	26.4 mg/L
Marine water	Single	0.88 mg/L
Soil	Single	2.33 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

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

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
Marine water	Single	141.26 mg/L

Titanium dioxide

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

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater	Single	184 µg/L
Intermittent release	Continuous	193 µg/L
Marine water	Single	18.4 µg/L
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 eyewash and emergency showers are clearly marked.

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. 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

7 - 9

Density (g/cm³)

1,18 - 1,25

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.

Flammability (°C)

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

Auto-ignition temperature (°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)

< 30

Other physical and chemical parameters

No data available.

Oxidizing properties

Testing not relevant or not possible 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	Titanium dioxide
Species:	Rat
Route of exposure:	Oral
Test:	LD50

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

Result:	5000 mg/kgbw
Product/substance	Titanium dioxide
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50
Result:	3.43 - 6.82 (4 h) mg/L
Product/substance	Talc (Mg ₃ H ₂ (SiO ₃) ₄)
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	> 5000 mg/kgbw
Product/substance	1-Isopropyl-2,2-dimethyltrimethylene diisobutyrate
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	> 2000 mg/kgbw
Product/substance	1-Isopropyl-2,2-dimethyltrimethylene diisobutyrate
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	> 2000 mg/kgbw
Product/substance	2-(2-Butoxyethoxy)ethanol
Species:	Mouse
Route of exposure:	Oral
Test:	LD50
Result:	2410 mg/kgbw
Product/substance	2-(2-Butoxyethoxy)ethanol
Species:	Rabbit
Route of exposure:	Dermal
Test:	LC50
Result:	2764 mg/kgbw
Product/substance	2-Butoxyethanol
Species:	Guinea pig
Route of exposure:	Oral
Test:	LD50
Result:	1414 mg/kgbw
Product/substance	Bronopol (INN)
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	193 mg/kgbw
Product/substance	2-Octyl-2H-isothiazol-3-one
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	125 mg/L
Product/substance	2-Octyl-2H-isothiazol-3-one
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	311 mg/kgbw
Product/substance	2-Octyl-2H-isothiazol-3-one
Species:	Rat
Route of exposure:	Inhalation

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

Test: LC50 (4 hours)
Result: 0,27 mg/L

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

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

Not applicable.

▼ Other information

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

Talc ($\text{Mg}_3\text{H}_2(\text{SiO}_3)_4$) has been classified by IARC as a group 3 carcinogen.

2-Butoxyethanol has been classified by IARC as a group 3 carcinogen.

SECTION 12: Ecological information

12.1. Toxicity

Product/substance	Titanium dioxide
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	155 - 294 mg/L

Product/substance	Titanium dioxide
Species:	Daphnia
Duration:	48 hours
Test:	LC50
Result:	500 mg/L

Product/substance	Titanium dioxide
Species:	Algae
Duration:	72 hours
Test:	EC50
Result:	100 mg/L

Product/substance	1-Isopropyl-2,2-dimethyltrimethylene diisobutyrate
Species:	Algae
Duration:	72 hours
Test:	EC50
Result:	> 7.49 mg/L

Product/substance	2-(2-Butoxyethoxy)ethanol
Species:	Fish
Duration:	96 hours

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

Test:	LC50
Result:	1300 mg/L

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

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

Product/substance	2-Butoxyethanol
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	1474 mg/L

Product/substance	2-Butoxyethanol
Species:	Daphnia
Duration:	48 hours
Test:	EC50
Result:	1 550 mg/L

Product/substance	2-Butoxyethanol
Species:	Algae
Duration:	72 hours
Test:	EC50
Result:	911 mg/L

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

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

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

12.2. Persistence and degradability

Product/substance	1-Isopropyl-2,2-dimethyltrimethylene diisobutyrate
Biodegradable:	Yes
Test method:	OECD 301 B
Result:	70,73 %

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

Product/substance	2-Butoxyethanol
Biodegradable:	Yes
Test method:	OECD 301 B

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

Result: 90,4 %

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

12.3. Bioaccumulative potential

Product/substance: 1-Isopropyl-2,2-dimethyltrimethylene diisobutyrate
Test method:
Potential bioaccumulation: Yes
LogPow: 4,91
BCF: No data available.
Other information:

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

Product/substance: 2-Butoxyethanol
Test method:
Potential bioaccumulation: No
LogPow: 0,8100
BCF: No data available.
Other information:

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

Not applicable.

12.7. Other adverse effects

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

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

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	-	-	-	-	-	-

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

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

Restricted to professional users.

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

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

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

The Health and Safety at Work etc. Act 1974 Regulations 2013.

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.

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

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.
H412, Harmful 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
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

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