

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

1.1. Product identifier

Product form : Mixture
Trade name : Rubio Monocoat Hybrid Wood Protector

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

Relevant identified uses

Main use category : Consumer use, Professional use

1.3. Details of the supplier of the safety data sheet

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info@rubiomonocoat.com, www.rubiomonocoat.com

1.4. Emergency telephone number

No additional information available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazardous to the aquatic environment – Chronic Hazard, H412
Category 3
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

CLP Signal word : -
Hazard statements (CLP) : H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP) : P273 - Avoid release to the environment.
P501 - Dispose of contents/container in accordance with local regulations.
EUH-statements : EUH208 - Contains 3-iodo-2-propynyl butylcarbamate, cobalt bis (2-ethylhexanoate). May produce an allergic reaction.
Extra phrases : For professional users only.

Nordic countries regulation

Denmark

MAL code : 00-1 (Executive Order No. 301 from 1993)

2.3. Other hazards

Other hazards not contributing to the classification : IMPORTANT: Fire Risk, this product contains linseed oil! Cloths, rags or any other combustible, absorbent material used to applicate the product or to clean up a spill, may spontaneously combust. These materials should be abundantly rinsed with water prior to their disposal in a fire-resistant container.

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

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Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	3-iodo-2-propynyl butylcarbamate (55406-53-6), zinc oxide (1314-13-2), 1-methoxy-2-propanol (107-98-2), 2-methoxy-1-methylethylacetat (108-65-6)(¹), cobalt bis (2-ethylhexanoate) (136-52-7)(¹)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	3-iodo-2-propynyl butylcarbamate (55406-53-6), zinc oxide (1314-13-2), 1-methoxy-2-propanol (107-98-2), 2-methoxy-1-methylethylacetat (108-65-6)(¹), cobalt bis (2-ethylhexanoate) (136-52-7)(¹)

(¹) Substance(s) in concentration below 0.1 % and displayed on a voluntary basis

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
zinc oxide substance with national workplace exposure limit(s) (BE, DK, FR)	CAS-No.: 1314-13-2 EC-No.: 215-222-5 EC Index-No.: 030-013-00-7 REACH-no: 01-2119463881-32	< 1.25	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1-methoxy-2-propanol substance with national workplace exposure limit(s) (BE, DK, FR, GB, NL); substance with a Community workplace exposure limit	CAS-No.: 107-98-2 EC-No.: 203-539-1 EC Index-No.: 603-064-00-3 REACH-no: 01-2119457435-35	< 20	Flam. Liq. 3, H226 STOT SE 3, H336
3-iodo-2-propynyl butylcarbamate	CAS-No.: 55406-53-6 EC-No.: 259-627-5 EC Index-No.: 616-212-00-7 REACH-no: 01-2120762115-60	<0.25	Acute Tox. 3 (Inhalation), H331 (ATE=0.68 mg/l/4h) Skin Sens. 1, H317 STOT RE 1, H372 Acute Tox. 4 (Oral), H302 (ATE=1470 mg/kg bodyweight) Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1)
cobalt bis (2-ethylhexanoate) substance with national workplace exposure limit(s) (GB)	CAS-No.: 136-52-7 EC-No.: 205-250-6 EC Index-No.: 607-230-00-6 REACH-no: 01-2119524678-29	<0.1	Repr. 1B, H360FD Skin Sens. 1A, H317 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
2-methoxy-1-methylethylacetat substance with national workplace exposure limit(s) (BE, DK, FR, GB, NL, CH); substance with a Community workplace exposure limit	CAS-No.: 108-65-6 EC-No.: 203-603-9 EC Index-No.: 607-195-00-7 REACH-no: 01-2119475791-29	< 0.005	Flam. Liq. 3, H226 STOT SE 3, H336

Full text of H- and EUH-statements: see section 16

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: If medical advice is needed, have product container or label at hand.
First-aid measures after inhalation	: under the recommended handling conditions: not required.
First-aid measures after skin contact	: If on skin : Wash with plenty of soap and water.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: In all cases of doubt, or when symptoms persist, seek medical attention.

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

Symptoms/effects	: Get medical advice/attention if you feel unwell.
Symptoms/effects after inhalation	: None under normal conditions.
Symptoms/effects after skin contact	: None under normal conditions.
Symptoms/effects after eye contact	: None under normal conditions.
Symptoms/effects after ingestion	: May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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

Show this safety data sheet to the doctor or emergency department.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: water spray, powder, foam (carbon dioxide (CO ₂)).
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Precautionary measures fire	: Evacuate area.
Firefighting instructions	: Prevent fire fighting water from entering the environment.
Protection during firefighting	: Self-contained breathing apparatus.
Other information	: Exercise caution when fighting any chemical fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Emergency procedures	: Do not get in eyes, on skin, or on clothing. Use personal protective equipment - see point 8. Limit spread.
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6.2. Environmental precautions

Avoid discharge into the sewer - see point 12. Inform the local environmental authorities in the event of a release to the surroundings.

6.3. Methods and material for containment and cleaning up

For containment	: Collect spillage.
Methods for cleaning up	: Liquid is absorbed with granules or similar. Collect in suitable containers. Rinse thoroughly with water. Further handling of spillage - see point 13.
Other information	: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

See above (see point 6.1/6.2/6.3).

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Do not eat, drink or smoke while using this product.
Precautions for safe handling : Avoid contact with the eyes and prolonged contact with the skin. After use, wash with plenty of soap and water.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed.
Storage area : Store in a well-ventilated place.

Switzerland

Storage class (LK) : LK 10/12 - Liquids

7.3. Specific end use(s)

See application - point 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

zinc oxide (1314-13-2)	
Belgium - Occupational Exposure Limits	
Local name	Zinc (oxyde de) (fraction alvéolaire) # Zinkoxide (inadembare fractie)
Limit value [mg/m ³]	2 mg/m ³ (Respirable fraction)
Short time value [mg/m ³]	10 mg/m ³ (Respirable fraction)
Regulatory reference	Koninklijk besluit/Arrêté royal 16/11/2023
Denmark - Occupational Exposure Limits	
Grænseværdi (8 timer) (mg/m ³)	0.5 mg/m ³
Grænseværdi (STEL) (mg/m ³)	1 mg/m ³
France - Occupational Exposure Limits	
VME [mg/m ³]	5 mg/m ³ (fumées) 10 mg/m ³
VLE [mg/m ³]	10 mg/m ³ (fumées)
1-methoxy-2-propanol (107-98-2)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOELV TWA (mg/m ³)	375 mg/m ³
IOELV TWA (ppm)	100 ppm
IOELV STEL (mg/m ³)	568 mg/m ³
IOELV STEL (ppm)	150 ppm
Belgium - Occupational Exposure Limits	
Local name	1-Méthoxy-2-propanol # 1-Methoxy-2-propanol
Limit value [mg/m ³]	184 mg/m ³
Limit value [ppm]	50 ppm
Short time value [mg/m ³]	369 mg/m ³

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1-methoxy-2-propanol (107-98-2)	
Short time value [ppm]	100 ppm
Remark (BE)	D: la mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l'agent dans l'air. # D: de vermelding "D" betekent dat de opname van het agens via de huid, de slijmvliezen of de ogen een belangrijk deel van de totale blootstelling vormt. Deze opname kan het gevolg zijn van zowel direct contact als zijn aanwezigheid in de lucht.
Regulatory reference	Koninklijk besluit/Arrêté royal 16/11/2023
Denmark - Occupational Exposure Limits	
Local name	1-methoxy-2-propanol
Grænseværdi (8 timer) (mg/m ³)	185 mg/m ³
Grænseværdi (8 timer) (ppm)	50 ppm
Grænseværdi (STEL) (mg/m ³)	568 mg/m ³
Grænseværdi (STEL) (ppm)	150 ppm
Remark	E - H
France - Occupational Exposure Limits	
VME [mg/m ³]	188 mg/m ³
VME [ppm]	50 ppm
VLE [mg/m ³]	375 mg/m ³
VLE [ppm]	100 ppm
2-methoxy-1-methylethylacetat (108-65-6)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOELV TWA (mg/m ³)	275 mg/m ³
IOELV TWA (ppm)	50 ppm
IOELV STEL (mg/m ³)	550 mg/m ³
IOELV STEL (ppm)	100 ppm
Belgium - Occupational Exposure Limits	
Local name	Acétate de 2-(1-méthoxy)propyle # 2-(1-Methoxy)propylacetaat
Limit value [mg/m ³]	275 mg/m ³
Limit value [ppm]	50 ppm
Short time value [mg/m ³]	550 mg/m ³
Short time value [ppm]	100 ppm
Remark (BE)	D: la mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l'agent dans l'air. # D: de vermelding "D" betekent dat de opname van het agens via de huid, de slijmvliezen of de ogen een belangrijk deel van de totale blootstelling vormt. Deze opname kan het gevolg zijn van zowel direct contact als zijn aanwezigheid in de lucht.
Regulatory reference	Koninklijk besluit/Arrêté royal 16/11/2023
Denmark - Occupational Exposure Limits	
Local name	2-methoxy-1-methylethylacetat
Grænseværdi (8 timer) (mg/m ³)	275 mg/m ³

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2-methoxy-1-methylethylacetat (108-65-6)	
Grænseværdi (8 timer) (ppm)	50 ppm
Grænseværdi (STEL) (mg/m ³)	550 mg/m ³
Grænseværdi (STEL) (ppm)	100 ppm
Remark	E - H
France - Occupational Exposure Limits	
VME [mg/m ³]	275 mg/m ³
VME [ppm]	50 ppm
VLE [mg/m ³]	550 mg/m ³
VLE [ppm]	100 ppm
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	275 mg/m ³
VLE [mg/m ³]	275 mg/m ³
DNEL and PNEC	
3-iodo-2-propynyl butylcarbamate (55406-53-6)	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	0.07 mg/m ³
Acute - local effects, inhalation	1.16 mg/m ³
Long-term - systemic effects, dermal	2 mg/kg bw/day
Long-term - systemic effects, inhalation	0.023 mg/m ³
Long-term - local effects, inhalation	1.16 mg/m ³
DNEL/DMEL (additional information)	
Additional information	No data available
PNEC (Water)	
PNEC aqua (freshwater)	0.001 mg/l
PNEC aqua (marine water)	0 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.017 mg/kg dwt
PNEC sediment (marine water)	0.002 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.005 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	0.44 mg/l
PNEC (additional information)	
Additional information	No data available
zinc oxide (1314-13-2)	
PNEC (Water)	
PNEC aqua (freshwater)	17.9 µg/l zinc ion
PNEC aqua (marine water)	9 µg/l zinc ion

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zinc oxide (1314-13-2)	
PNEC (Sediment)	
PNEC sediment (freshwater)	182.8 mg/kg dwt zinc ion
PNEC sediment (marine water)	201.9 mg/kg dwt zinc ion
PNEC (Soil)	
PNEC soil	103.4 mg/kg dwt zinc ion
PNEC (STP)	
PNEC sewage treatment plant	124.5 µg/l zinc ion
1-methoxy-2-propanol (107-98-2)	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	553.5 mg/m ³
Acute - local effects, inhalation	553.5 mg/m ³
Long-term - systemic effects, dermal	183 mg/m ³
Long-term - systemic effects, inhalation	369 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	33 mg/kg bw/day
Long-term - systemic effects, inhalation	43.9 mg/m ³
Long-term - systemic effects, dermal	78 mg/kg bw/day
PNEC (Water)	
PNEC aqua (freshwater)	10 mg/l
PNEC aqua (marine water)	1 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	52.3 mg/kg dwt
PNEC sediment (marine water)	5.2 mg/kg dwt
PNEC (Soil)	
PNEC soil	4.59 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	100 mg/l
2-methoxy-1-methylethylacetat (108-65-6)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	550 mg/m ³
Long-term - systemic effects, dermal	153.5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	275 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, oral	500 mg/kg bw/day
Long-term - systemic effects, oral	1.67 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	33 mg/m ³
Long-term - systemic effects, dermal	54.8 mg/kg bodyweight/day
Long-term - local effects, inhalation	33 mg/m ³

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2-methoxy-1-methylethylacetat (108-65-6)	
PNEC (Water)	
PNEC aqua (freshwater)	0.635 mg/l
PNEC aqua (marine water)	0.064 mg/l
PNEC aqua (intermittent, freshwater)	3.29 mg/l
PNEC aqua (intermittent, marine water)	0.329 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	3.29 mg/kg dwt
PNEC sediment (marine water)	0.329 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.29 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	100 mg/l
cobalt bis (2-ethylhexanoate) (136-52-7)	
DNEL/DMEL (Workers)	
Long-term - local effects, inhalation	235.1 µg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	175 µg/kg dw
Long-term - local effects, inhalation	37 µg/m³
PNEC (Water)	
PNEC aqua (freshwater)	1.06 µg/l
PNEC aqua (marine water)	2.36 µg/l
PNEC aqua (intermittent, freshwater)	9.5 mg/l
PNEC aqua (intermittent, marine water)	9.5 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	53.8 mg/kg dwt
PNEC sediment (marine water)	69.8 mg/kg dwt
PNEC (Soil)	
PNEC soil	10.9 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	0.37 mg/l

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

During spraying wear suitable respiratory equipment.

Personal protection equipment

Eye and face protection

Eye protection			
Type	Use	Characteristics	Standard
Safety glasses	Droplet	With side shields	EN 166

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Skin protection

Hand protection					
Type	Material	Permeation	Thickness (mm)	Permeation	Standard
protective gloves	Nitrile rubber (NBR)	5 (> 240 minutes)	>0,3		EN 374-2

Respiratory protection

Respiratory protection:

Usually not necessary. In case of insufficient ventilation or spraying: Use approved mask with particle filter P2 (EN149). The filters have a limited service life (must be changed). Read the manufacturer's instructions.

Respiratory protection			
Device	Filter type	Condition	Standard
Gas/Particle Filter	typeA/P2		EN 140

Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Not available
Odour	: Oily.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability (solid, gas)	: Not available
Lower explosive limit (LEL)	: Not available
Upper explosive limit (UEL)	: Not available
Flash point	: > 100 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Solubility	: Not available
Log Kow	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: > 0.96 kg/l (20°C)
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

Other safety characteristics

VOC content : 0 %

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

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10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Keep away from combustible material. Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

10.5. Incompatible materials

Avoid oxidizing agents as well as strong acids and bases.

10.6. Hazardous decomposition products

Under fire conditions, hazardous fumes will be present.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

3-iodo-2-propynyl butylcarbamate (55406-53-6)

LD50 oral rat	1470 mg/kg bodyweight (OESO 401: Acute oral toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	0.68 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male/female, Experimental value, Inhalation (vapour), 14 day(s))

zinc oxide (1314-13-2)

LD50 oral rat	> 5000 mg/kg (OESO 401: Acute oral toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402: Acute dermal toxicity, 24 h, Rat, Male/female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 5.7 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male/female, Experimental value, Inhalation (vapour), 14 day(s))

1-methoxy-2-propanol (107-98-2)

LD50 oral rat	4016 mg/kg bodyweight (EU Method B.1 tris: Acute oral toxicity – Method for the determination of the acute toxicity class, Rat, Male/female, Experimental value, Oral, 14 day(s))
LD50 oral	3739 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight (Equivalent or similar to EU Method B.3, 24 h, Rat, Male/female, Experimental value, Dermal, 14 day(s))
LD50 dermal	> 2000 mg/kg bodyweight
LC50 Inhalation - Rat (Dust/Mist)	> 26315 mg/l

2-methoxy-1-methylethylacetat (108-65-6)

LD50 oral rat	6190 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg

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2-methoxy-1-methylethylacetat (108-65-6)	
LD50 dermal rabbit	> 2000 mg/kg bodyweight
cobalt bis (2-ethylhexanoate) (136-52-7)	
LD50 oral rat	3129 mg/kg bodyweight (OECD 425: Acute oral toxicity: up-and-down procedure, Rat, Female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402: Acute dermal toxicity, 24 h, Rat, Male/female, Experimental value of similar product, Dermal, 15 day(s))
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met)
3-iodo-2-propynyl butylcarbamate (55406-53-6)	
pH	No data available in the literature
zinc oxide (1314-13-2)	
pH	6.07 – 6.55 (< 0.01 %, 20 °C, OECD 105: Solubility in water)
1-methoxy-2-propanol (107-98-2)	
pH	No data available in the literature
2-methoxy-1-methylethylacetat (108-65-6)	
pH	4 (20 %)
cobalt bis (2-ethylhexanoate) (136-52-7)	
pH	6.8 (4.03 %, 20 °C, OECD 105: Solubility in water)
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met)
3-iodo-2-propynyl butylcarbamate (55406-53-6)	
pH	No data available in the literature
zinc oxide (1314-13-2)	
pH	6.07 – 6.55 (< 0.01 %, 20 °C, OECD 105: Solubility in water)
1-methoxy-2-propanol (107-98-2)	
pH	No data available in the literature
2-methoxy-1-methylethylacetat (108-65-6)	
pH	4 (20 %)
cobalt bis (2-ethylhexanoate) (136-52-7)	
pH	6.8 (4.03 %, 20 °C, OECD 105: Solubility in water)
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
1-methoxy-2-propanol (107-98-2)	
STOT-single exposure	May cause drowsiness or dizziness.
2-methoxy-1-methylethylacetat (108-65-6)	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)

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3-iodo-2-propynyl butylcarbamate (55406-53-6)	
STOT-repeated exposure	Causes damage to organs (larynx) through prolonged or repeated exposure (if inhaled).
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
3-iodo-2-propynyl butylcarbamate (55406-53-6)	
Viscosity, kinematic	Not applicable
zinc oxide (1314-13-2)	
Viscosity, kinematic	Not applicable
1-methoxy-2-propanol (107-98-2)	
Viscosity, kinematic	No data available in the literature
2-methoxy-1-methylethylacetat (108-65-6)	
Viscosity, kinematic	1.23 mm ² /s (20 °C, DIN 51562: capillaire viscosimeter)
cobalt bis (2-ethylhexanoate) (136-52-7)	
Viscosity, kinematic	Not applicable

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Not applicable.
Hazardous to the aquatic environment, short-term (acute)	: Not classified (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long-term (chronic)	: Harmful to aquatic life with long lasting effects.

3-iodo-2-propynyl butylcarbamate (55406-53-6)	
LC50 fish 1	67 µg/l (EPA OPP 72-1, 96 u, Oncorhynchus mykiss, Doorstroomsysteem, Zoet water, Experimentele waarde, GLP)
ErC50 (algae)	53 µg/l (OECD 201: Algae: Growth inhibition study, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)
Threshold limit algae 1	0.022 mg/l (72 h; Scenedesmus subspicatus)
zinc oxide (1314-13-2)	
LC50 fish 1	0.17 mg/l (ASTM E729-88, 96 hr, Oncorhynchus mykiss, Static system, Fresh water, Read-across, Zinc ion)
EC50 Daphnia 1	1 mg/l (OECD 202: Acute immobilisation test Daphnia sp., 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Zinc ion)
NOEC chronic algae	0.017 mg/l (Pseudokirchneriella; 72h)
1-methoxy-2-propanol (107-98-2)	
LC50 fish 1	> 4600 mg/l
EC50 other aquatic organisms 1	23300 mg/l waterflea
EC50 other aquatic organisms 2	> 500 mg/l

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1-methoxy-2-propanol (107-98-2)	
ErC50 (algae)	> 1000 mg/l (7 day(s), Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration)
Threshold limit algae 1	> 1000 mg/l (168 h; Pseudokirchneriella subcapitata)
2-methoxy-1-methylethylacetat (108-65-6)	
LC50 fish 1	161 mg/l (96 h; Pimephales promelas)
LC50 fish 2	100 – 180 mg/l (96 h; Oncorhynchus mykiss)
EC50 Daphnia 1	380 mg/l (48 h; Daphnia magna)
ErC50 (algae)	> 1000 mg/l (OECD 201: Algae: Growth Inhibition Test, 96 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration)
Threshold limit algae 1	≥ 1000 mg/l (96 h; Pseudokirchneriella subcapitata)
Threshold limit algae 2	> 1000 mg/l (96 h; Pseudokirchneriella subcapitata)
cobalt bis (2-ethylhexanoate) (136-52-7)	
LC50 fish 1	0.8 mg/l (Oncorhynchus mykiss, Fresh water, Literature study, Cobalt)
ErC50 (algae)	144 µg/l (OECD 201: Algae: Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Read-across, GLP)

12.2. Persistence and degradability

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Persistence and degradability	Rapidly degradable
3-iodo-2-propynyl butylcarbamate (55406-53-6)	
Persistence and degradability	Biodegradability not applicable.
Chemical oxygen demand (COD)	1.15 g O ₂ /g substance
zinc oxide (1314-13-2)	
Persistence and degradability	Rapidly degradable
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
1-methoxy-2-propanol (107-98-2)	
Persistence and degradability	Biodegradability not applicable.
ThOD	1.95 g O ₂ /g substance
2-methoxy-1-methylethylacetat (108-65-6)	
Persistence and degradability	Biodegradability not applicable.
cobalt bis (2-ethylhexanoate) (136-52-7)	
Persistence and degradability	Biodegradability not applicable.

12.3. Bioaccumulative potential

3-iodo-2-propynyl butylcarbamate (55406-53-6)	
Log Pow	2.8 (Experimental value, OECD 107: Partition coefficient (n-octanol/water): Shake flask method, 25 °C)

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3-iodo-2-propynyl butylcarbamate (55406-53-6)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
zinc oxide (1314-13-2)	
Bioconcentration factor (BCF REACH)	60960
Bioaccumulative potential	No potential for bioaccumulation.
1-methoxy-2-propanol (107-98-2)	
BCF fish 1	1
Log Pow	-0.49
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
2-methoxy-1-methylethylacetat (108-65-6)	
Log Pow	1.2
Bioaccumulative potential	Low bioaccumulation potential.
cobalt bis (2-ethylhexanoate) (136-52-7)	
BCF fish 1	1.2 (131 day(s), Seriola quinqueradiata, Static system, Salt water, Read-across, Fresh weight)
Log Pow	4.7 (Estimated value, KOWWIN)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 500).
12.4. Mobility in soil	
3-iodo-2-propynyl butylcarbamate (55406-53-6)	
Mobility in soil	Low adsorption capacity in soil
Surface tension	69.1 mN/m (158 mg/l, EU Method A.5: Surface tension)
Log Koc	1.8 – 2.5 (log Koc, Calculated value)
zinc oxide (1314-13-2)	
Surface tension	No data available in the literature
Log Koc	2.2 (log Koc, Literature study)
Ecology - soil	Little ability for mobility in soil.
1-methoxy-2-propanol (107-98-2)	
Surface tension	70.7 mN/m (20 °C, 1 g/l, OECD 115: Surface tension of aqueous solutions)
Log Koc	0.15 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Very mobile in the soils.
2-methoxy-1-methylethylacetat (108-65-6)	
Surface tension	0.0294 N/m (20 °C; 100 vol %)
Log Koc	0.602 – 1.079 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	mobile in soils.
cobalt bis (2-ethylhexanoate) (136-52-7)	
Surface tension	64.43 mN/m (20 °C, 1 g/l, OECD 115: Surface tension of aqueous solutions)
Log Koc	3.1 (log Koc, SRC PCKOCWIN v2.0, Calculated value)

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cobalt bis (2-ethylhexanoate) (136-52-7)

Ecology - soil Little ability for mobility in soil.

12.5. Results of PBT and vPvB assessment

Component

Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII
3-iodo-2-propynyl butylcarbamate (55406-53-6), zinc oxide (1314-13-2), 1-methoxy-2-propanol (107-98-2), 2-methoxy-1-methylethylacetat (108-65-6)⁽¹⁾, cobalt bis (2-ethylhexanoate) (136-52-7)⁽¹⁾

Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII
3-iodo-2-propynyl butylcarbamate (55406-53-6), zinc oxide (1314-13-2), 1-methoxy-2-propanol (107-98-2), 2-methoxy-1-methylethylacetat (108-65-6)⁽¹⁾, cobalt bis (2-ethylhexanoate) (136-52-7)⁽¹⁾

⁽¹⁾ Substance(s) in concentration below 0.1 % and displayed on a voluntary basis

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

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Other information Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose of in accordance with relevant local regulations. Discharging into rivers and drains is forbidden.

Additional information : Clean up even minor leaks or spills if possible without unnecessary risk.

Ecology - waste materials : Avoid release to the environment.

European List of Waste (LoW, EC 2000/532) : 08 01 12 - waste paint and varnish other than those mentioned in 08 01 11

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

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14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)

Reference code	Applicable on	Entry title or description
3(b)	1-methoxy-2-propanol	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10
3(a)	1-methoxy-2-propanol	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F
40.	1-methoxy-2-propanol	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

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VOC Directive (2004/42)

VOC content : 0 %

Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

National regulations

France

Occupational diseases	
Code	Description
RG 84	Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide

Germany

GISCODE : Ö10 - Oils/waxes, solvent-free.
Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).
VOC content : 0 %

Denmark

MAL code : 00-1 (Executive Order No. 301 from 1993)
Danish National Regulations : The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

Poland

Polish National Regulations : Act of 25 February 2011 on chemical substances and their mixtures (J. o L. No. 63, item 322 as amended; consolidated text J. o L. 2019, item 1225).
Act of 14 December 2012 on waste (J. o L. 2013, item 322 as amended; consolidated text J. o L. 2020, item 797).
The announcement of Marshal of the Sejm of the Republic of Poland dated 19 October 2016 concerning the consolidated text announcement of the decree on the management of packaging and packaging waste (J. o L. 2016, item 1863 as amended).
Decree of the Minister of Environment of 14 December 2014 on the catalogue of waste (J. o L. 2014, item 1923).
Act of 19 August 2011 on the Carriage of Dangerous Goods (J. o L. 2011 No. 227, item 1367 as amended; consolidated text J. o L. 2020, item 154).
Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the highest permissible concentration and intensity of noxious agents for health at work environment (J. o L. item 1286 as amended).
The announcement of Minister of Health dated 9 September 2016 concerning the consolidated text announcement of the decree of the Minister of Health of 30 December 2004 on health and safety at work related to exposure to chemical agents at work (J. o L. of 16 September 2016, item 1488)
Regulation of the Minister of Health of 2 February 2011 on tests and measurements of the noxious agents for health at work environment (J. o L. No. 33, item 166 as amended).
Regulation of the Minister of Environment of 9 December 2003 on particularly hazardous substances to the environment (J. o L. No. 217, item 2141).
ADR Agreement: Government Statement of 13 March 2023 on the entry into force of amendments to Annexes A and B to the Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), signed in Geneva on 30 September 1957 (J. o. L. 2023, item 891)
Regulation of the Minister of Health of 25 August 2015 on the method of marking places, pipelines, and containers and tanks used for storing or containing hazardous substances or hazardous mixtures (J.o.L. 2015, item 1368 as ammended)

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15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Repr. 1B	Reproductive toxicity, Category 1B
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H360FD	May damage fertility. May damage the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains 3-iodo-2-propynyl butylcarbamate, cobalt bis (2-ethylhexanoate). May produce an allergic reaction.

The classification complies with : ATP 18

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.