

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

1.2.1. Relevant identified uses

Main use category : Consumer use, Professional use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Muylle Facon B.V.B.A. - Rubio Monocoat
Ambachtenstraat 58
B- 8870 Izegem
Belgium
T +32 (0) 51 30 80 54 - F +32 (0) 51 30 99 78
info@rubiomonocoat.com - www.rubiomonocoat.com

1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number	Comment
Australia	NSW Poisons Information Centre The Children's Hospital at Westmead	Locked Bag 4001 NSW 2145	13 11 26	
Belgium	Muylle Facon B.V.B.A. - Rubio Monocoat	Ambachtenstraat 58 8870 Izegem	T +32 (0) 51 30 80 54	
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	Only for healthcare professionals

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, Category 3 H412

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 to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
EUH-statements : EUH211 - Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Rubio Monocoat Hybrid Wood Protector

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

EUH208 - Contains 3-iodo-2-propynyl butylcarbamate, cobalt bis (2-ethylhexanoate). May produce an allergic reaction.

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 apply 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/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

Component	
3-iodo-2-propynyl butylcarbamate (55406-53-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
1,2-propanediol (57-55-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
cobalt bis (2-ethylhexanoate) (136-52-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
zinc oxide (1314-13-2)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
1-methoxy-2-propanol (107-98-2)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
2-methoxy-1-methylethylacetat (108-65-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$] (13463-67-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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 is 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

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$] substance with national workplace exposure limit(s) (BE, DK, FR, GB, SE, NO)	CAS-No.: 13463-67-7 EC-No.: 236-675-5 EC Index-No.: 022-006-00-2 REACH-no: 01-2119489379-17	0 – 20	Carc. 2, H351
polyethylene substance with national workplace exposure limit(s) (BE, FR, GB)	CAS-No.: 9002-88-4	<2.4	Not classified

Rubio Monocoat Hybrid Wood Protector

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
zinc oxide substance with national workplace exposure limit(s) (BE, 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	< 0,26	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	0,2216	Acute Tox. 4 (Oral), H302 (ATE=300 mg/kg bodyweight) Acute Tox. 3 (Inhalation), H331 (ATE=0,67 mg/l/4h) Acute Tox. 3 (Inhalation:dust,mist), H331 (ATE=0,67 mg/l/4h) Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
cobalt bis (2-ethylhexanoate) substance with national workplace exposure limit(s) (GB)	CAS-No.: 136-52-7 EC-No.: 205-250-6 REACH-no: 01-2119524678-29	<0,1	Eye Irrit. 2, H319 Skin Sens. 1A, H317 Repr. 1A, H360 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
1,2-propanediol substance with national workplace exposure limit(s) (GB)	CAS-No.: 57-55-6 EC-No.: 200-338-0 REACH-no: 01-2119456809-23	<0.08	Not classified
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

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

Rubio Monocoat Hybrid Wood Protector

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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	: Can't burn. Water mist, carbonic acid, foam or powder against surrounding fire.
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

6.1.1. 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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6.1.2. For emergency responders

No additional information available

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).

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.

7.3. Specific end use(s)

See application - point 1.

Rubio Monocoat Hybrid Wood Protector

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

1,2-propanediol (57-55-6)	
United Kingdom - Occupational Exposure Limits	
Local name	Propane-1,2-diol
WEL TWA (mg/m³)	474 mg/m³ 10 mg/m³
WEL TWA (ppm)	150 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
cobalt bis (2-ethylhexanoate) (136-52-7)	
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m³)	0,1 mg/m³
zinc oxide (1314-13-2)	
Belgium - Occupational Exposure Limits	
Local name	Zinc (oxyde de) (fraction alvéolaire) # Zinkoxide (inadembare fractie)
Limit value [mg/m³]	2 mg/m³
Short time value [mg/m³]	10 mg/m³
Regulatory reference	Koninklijk besluit/Arrêté royal 11/05/2021
France - Occupational Exposure Limits	
VME [mg/m³]	5 mg/m³ 10 mg/m³
VLE [mg/m³]	10 mg/m³
USA - ACGIH - Occupational Exposure Limits	
Local name	Zinc oxide
ACGIH TWA (mg/m³)	2 mg/m³
ACGIH STEL (mg/m³)	10 mg/m³
Remark (ACGIH)	TLV® Basis: Metal fume fever
Regulatory reference	ACGIH 2023
1-methoxy-2-propanol (107-98-2)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOELV TWA (mg/m³)	375 mg/m³
IOELV TWA (ppm)	100 ppm
IOELV STEL (mg/m³)	568 mg/m³
IOELV STEL (ppm)	150 ppm
Belgium - Occupational Exposure Limits	
Local name	1-Méthoxy-2-propanol # 1-Methoxy-2-propanol
Limit value [mg/m³]	184 mg/m³
Limit value [ppm]	50 ppm
Short time value [mg/m³]	369 mg/m³

Rubio Monocoat Hybrid Wood Protector

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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 11/05/2021
Denmark - Occupational Exposure Limits	
Local name	1-methoxy-2-propanol
Grænseværdi (8 timer) (mg/m³)	185 mg/m³
Grænseværdi (STEL) (mg/m³)	370 mg/m³
Remark	K
France - Occupational Exposure Limits	
VME [mg/m³]	188 mg/m³
VME [ppm]	50 ppm
VLE [mg/m³]	375 mg/m³
VLE [ppm]	100 ppm
Netherlands - Occupational Exposure Limits	
Grenswaarde TGG 8H (mg/m³)	375 mg/m³
Grenswaarde TGG 8H (ppm)	100 ppm
Grenswaarde TGG 15MIN (mg/m³)	563 mg/m³
Grenswaarde TGG 15MIN (ppm)	150 ppm
United Kingdom - Occupational Exposure Limits	
Local name	1-Methoxypropan-2-ol
WEL TWA (mg/m³)	375 mg/m³
WEL TWA (ppm)	100 ppm
WEL STEL (mg/m³)	560 mg/m³
WEL STEL (OEL STEL) [ppm]	150 ppm
Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
USA - ACGIH - Occupational Exposure Limits	
Local name	1-Methoxy-2-propanol
ACGIH TWA (ppm)	50 ppm
ACGIH STEL (ppm)	100 ppm
Remark (ACGIH)	TLV® Basis: Eye & URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2023
2-methoxy-1-methylethylacetat (108-65-6)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOELV TWA (mg/m³)	275 mg/m³

Rubio Monocoat Hybrid Wood Protector

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

2-methoxy-1-methylethylacetat (108-65-6)	
IOELV TWA (ppm)	50 ppm
IOELV STEL (mg/m³)	550 mg/m³
IOELV STEL (ppm)	100 ppm
Belgium - Occupational Exposure Limits	
Local name	Acétate de 2-(1-méthoxy)propyle # 2-(1-Methoxy)propylacetaat
Limit value [mg/m³]	275 mg/m³
Limit value [ppm]	50 ppm
Short time value [mg/m³]	550 mg/m³
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 11/05/2021
Denmark - Occupational Exposure Limits	
Local name	2-methoxy-1-methylethylacetat
Grænseværdi (8 timer) (mg/m³)	275 mg/m³
Grænseværdi (STEL) (mg/m³)	550 mg/m³
Remark	K
France - Occupational Exposure Limits	
VME [mg/m³]	275 mg/m³
VME [ppm]	50 ppm
VLE [mg/m³]	550 mg/m³
VLE [ppm]	100 ppm
Netherlands - Occupational Exposure Limits	
Grenswaarde TGG 8H (mg/m³)	550 mg/m³
Grenswaarde TGG 8H (ppm)	100 ppm
United Kingdom - Occupational Exposure Limits	
Local name	1-Methoxypropyl acetate
WEL TWA (mg/m³)	274 mg/m³
WEL TWA (ppm)	50 ppm
WEL STEL (mg/m³)	548 mg/m³
WEL STEL (OEL STEL) [ppm]	100 ppm
Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Switzerland - Occupational Exposure Limits	
VME [mg/m³]	275 mg/m³
VLE [mg/m³]	275 mg/m³

Rubio Monocoat Hybrid Wood Protector

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

polyethylene (9002-88-4)	
Belgium - Occupational Exposure Limits	
Limit value [mg/m³]	3 mg/m³ 10 mg/m³
France - Occupational Exposure Limits	
VME [mg/m³]	7 mg/m³ 3,5 mg/m³ 4 mg/m³ 0,9 mg/m³
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m³)	10 mg/m³ 4 mg/m³
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (mg/m³)	3 mg/m³ 10 mg/m³
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7)	
Belgium - Occupational Exposure Limits	
Local name	Titane (dioxyde de) # Titaandioxide
Limit value [mg/m³]	10 mg/m³
Regulatory reference	Koninklijk besluit/Arrêté royal 11/05/2021
Denmark - Occupational Exposure Limits	
Local name	Titandioxid, beregnet som Ti
Grænseværdi (8 timer) (mg/m³)	6 mg/m³
Grænseværdi (STEL) (mg/m³)	12 mg/m³
Remark	K
France - Occupational Exposure Limits	
VME [mg/m³]	10 mg/m³
Sweden - Occupational Exposure Limits	
Local name	Titandioxid
Nivågränsvärde (NVG) (mg/m³)	5 mg/m³
United Kingdom - Occupational Exposure Limits	
Local name	Titanium dioxide
WEL TWA (mg/m³)	10 mg/m³ 4 mg/m³
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Norway - Occupational Exposure Limits	
Local name	Titandioksid
Grenseverdier (AN) (mg/m³)	5 mg/m³
USA - ACGIH - Occupational Exposure Limits	
Local name	Titanium dioxide
ACGIH TWA (mg/m³)	0,2 mg/m³ 2,5 mg/m³

Rubio Monocoat Hybrid Wood Protector

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$] (13463-67-7)	
Remark (ACGIH)	TLV® Basis: LRT irr; pneumoconiosis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2023

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

3-iodo-2-propynyl butylcarbamate (55406-53-6)	
DNEL/DMEL (additional information)	
Additional information	No data available
PNEC (additional information)	
Additional information	No data available
cobalt bis (2-ethylhexanoate) (136-52-7)	
DNEL/DMEL (Workers)	
Long-term - local effects, inhalation	235,1 $\mu\text{g}/\text{m}^3$
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	55,8 $\mu\text{g}/\text{kg dw}$
Long-term - local effects, inhalation	37 $\mu\text{g}/\text{m}^3$
PNEC (Water)	
PNEC aqua (freshwater)	0,6 $\mu\text{g}/\text{l}$
PNEC aqua (marine water)	2,36 $\mu\text{g}/\text{l}$
PNEC aqua (intermittent, freshwater)	9,5 mg/l
PNEC aqua (intermittent, marine water)	9,5 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	9,5 $\text{mg}/\text{kg dwt}$
PNEC sediment (marine water)	9,5 $\text{mg}/\text{kg dwt}$
PNEC (Soil)	
PNEC soil	10,9 $\text{mg}/\text{kg dwt}$
PNEC (STP)	
PNEC sewage treatment plant	0,37 mg/l
zinc oxide (1314-13-2)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	83 $\text{mg}/\text{kg bw}/\text{day}$
Long-term - systemic effects, inhalation	5 mg/m^3
Long-term - local effects, inhalation	0,5 mg/m^3
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0,83 $\text{mg}/\text{kg bw}/\text{day}$
Long-term - systemic effects, inhalation	2,5 mg/m^3

Rubio Monocoat Hybrid Wood Protector

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

zinc oxide (1314-13-2)	
Long-term - systemic effects, dermal	83 mg/kg bw/day
PNEC (Water)	
PNEC aqua (freshwater)	20,6 µg/l
PNEC aqua (marine water)	6,1 µg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	117,8 mg/kg dwt
PNEC sediment (marine water)	56,5 mg/kg dwt
PNEC (Soil)	
PNEC soil	35,6 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	100 µg/l
1-methoxy-2-propanol (107-98-2)	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	553,5 mg/m³
Acute - local effects, inhalation	553,5 mg/m³
Long-term - systemic effects, dermal	183 mg/m³
Long-term - systemic effects, inhalation	369 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	33 mg/kg bw/day
Long-term - systemic effects, inhalation	43,9 mg/m³
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/m³
Long-term - systemic effects, dermal	153,5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	275 mg/m³
DNEL/DMEL (General population)	
Acute - systemic effects, oral	500 mg/kg bw/day

Rubio Monocoat Hybrid Wood Protector

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

2-methoxy-1-methylethylacetat (108-65-6)	
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
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
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7)	
DNEL/DMEL (Workers)	
Long-term - local effects, inhalation	1,25 mg/m ³
DNEL/DMEL (General population)	
Long-term - local effects, inhalation	210 µg/m ³

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

During spraying wear suitable respiratory equipment.

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

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

8.2.2.2. Skin protection

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

Rubio Monocoat Hybrid Wood Protector

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

8.2.2.3. 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
approved mask with particle filter P2	Type P2		EN 149

8.2.2.4. Thermal hazards

No additional information available

8.2.3. 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	: Not available
Explosive limits	: 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
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

VOC content : 0 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

Rubio Monocoat Hybrid Wood Protector

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

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

LD50 oral rat	300 – 500 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	0,67 mg/l

1,2-propanediol (57-55-6)

LD50 oral rat	22000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg bodyweight
LC50 Inhalation - Rat	> 44,9 mg/l

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

LD50 oral rat	3129 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight

zinc oxide (1314-13-2)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg bodyweight
LC50 Inhalation - Rat	> 5,7 mg/l

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

LD50 oral rat	4016 mg/kg bodyweight
LD50 oral	3739 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight
LD50 dermal	> 2000 mg/kg bodyweight
LC50 Inhalation - Rat (Dust/Mist)	> 26315 mg/l

Rubio Monocoat Hybrid Wood Protector

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

2-methoxy-1-methylethylacetat (108-65-6)	
LD50 oral rat	6190 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg bodyweight
polyethylene (9002-88-4)	
LD50 oral rat	> 2000 mg/kg
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7)	
LD50 oral rat	> 2000 mg/kg bodyweight
LC50 Inhalation - Rat	> 5,09 mg/l
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
polyethylene (9002-88-4)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
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
3-iodo-2-propynyl butylcarbamate (55406-53-6)	
STOT-repeated exposure	Causes damage to organs (larynx) through prolonged or repeated exposure.
Aspiration hazard	: Not classified

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
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	0,2 mg/l
LC50 fish 2	85 mg/l
EC50 Daphnia 1	0,16 mg/l
EC50 Daphnia 2	60 mg/l
ErC50 (algae)	> 41,3 mg/l

Rubio Monocoat Hybrid Wood Protector

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

3-iodo-2-propynyl butylcarbamate (55406-53-6)	
Threshold limit algae 1	0,022 mg/l (72 h; Scenedesmus subspicatus)
1,2-propanediol (57-55-6)	
LC50 fish 1	40613 mg/l
ErC50 (algae)	24200 mg/l
cobalt bis (2-ethylhexanoate) (136-52-7)	
LC50 fish 1	1,512 mg/l
LC50 fish 2	54,1 mg/l
EC50 other aquatic organisms 1	1703 mg/kg dwt
ErC50 (algae)	144 µg/l
zinc oxide (1314-13-2)	
LC50 fish 1	0,169 mg/l
EC50 Daphnia 1	1 mg/l
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
ErC50 (algae)	> 1000 mg/l
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
Threshold limit algae 1	≥ 1000 mg/l (96 h; Pseudokirchneriella subcapitata)
Threshold limit algae 2	> 1000 mg/l (96 h; Pseudokirchneriella subcapitata)
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7)	
LC50 fish 1	> 1000 mg/l
EC50 Daphnia 1	> 1000 mg/l
EC50 72h - Algae [1]	> 100 mg/l

12.2. Persistence and degradability

3-iodo-2-propynyl butylcarbamate (55406-53-6)	
Chemical oxygen demand (COD)	1,15 g O ₂ /g substance
1,2-propanediol (57-55-6)	
Biochemical oxygen demand (BOD)	0,96 – 1,08 g O ₂ /g substance
Chemical oxygen demand (COD)	1,63 g O ₂ /g substance
ThOD	1,69 g O ₂ /g substance

Rubio Monocoat Hybrid Wood Protector

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

1-methoxy-2-propanol (107-98-2)	
ThOD	1,95 g O ₂ /g substance
2-methoxy-1-methylethylacetat (108-65-6)	
Persistence and degradability	Readily biodegradable.
12.3. Bioaccumulative potential	
3-iodo-2-propynyl butylcarbamate (55406-53-6)	
BCF fish 1	3,3 – 4,5
Log Pow	2,81
1,2-propanediol (57-55-6)	
Log Pow	-1,07
cobalt bis (2-ethylhexanoate) (136-52-7)	
BCF fish 1	1,2
zinc oxide (1314-13-2)	
Bioconcentration factor (BCF REACH)	60960
1-methoxy-2-propanol (107-98-2)	
BCF fish 1	1
Log Pow	-0,49
2-methoxy-1-methylethylacetat (108-65-6)	
Log Pow	1,2
Bioaccumulative potential	Low bioaccumulation potential.
polyethylene (9002-88-4)	
Bioaccumulative potential	No bioaccumulation data available.
12.4. Mobility in soil	
3-iodo-2-propynyl butylcarbamate (55406-53-6)	
Surface tension	69,1 mN/m
Log Koc	2,1
1,2-propanediol (57-55-6)	
Surface tension	71,6 mN/m
Log Koc	0,46
Ecology - soil	Very mobile in the soils.
cobalt bis (2-ethylhexanoate) (136-52-7)	
Surface tension	64 mN/m
zinc oxide (1314-13-2)	
Log Koc	2,2
1-methoxy-2-propanol (107-98-2)	
Surface tension	70,7 mN/m
Log Koc	0,152

Rubio Monocoat Hybrid Wood Protector

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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

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

Ecology - soil : mobile in soils.

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

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) code : 08 01 12 - waste paint and varnish other than those mentioned in 08 01 11

H code : Z

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				

14.6. Special precautions for user

Overland transport

Not applicable

Rubio Monocoat Hybrid Wood Protector

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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

15.1.1. EU-Regulations

EU restriction list (REACH Annex XVII)

Reference code	Applicable on	Entry title or description
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
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
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.

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

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

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

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

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

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

VOC content : 0 g/l

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)

15.1.2. National regulations

France

Occupational diseases

Code	Description
RG 66	Occupational rhinitis and asthma

Rubio Monocoat Hybrid Wood Protector

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

ABM category : A(3) - hazardous for aquatic organisms, may have longterm hazardous effects in aquatic environment

SZW-list of carcinogenic substances : None of the components are listed

SZW-list of mutagenic substances : None of the components are listed

NON-exhaustive list of reprotoxic substances - : None of the components are listed

Breastfeeding

SZW-lijst van reprotoxische stoffen – : None of the components are listed

Vruchtbaarheid

NON-exhaustive list of reprotoxic substances - : None of the components are listed

Development

Denmark

Danish National Regulations : The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

Switzerland

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

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. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) 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
Carc. 2	Carcinogenicity, Category 2
EUH208	Contains 3-iodo-2-propynyl butylcarbamate, cobalt bis (2-ethylhexanoate). May produce an allergic reaction.
EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
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
H226	Flammable liquid and vapour.

Rubio Monocoat Hybrid Wood Protector

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Full text of H- and EUH-statements:	
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.
H351	Suspected of causing cancer.
H360	May damage fertility or 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.
Repr. 1A	Reproductive toxicity, Category 1A
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

The classification complies with : ATP 17

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.