

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

1.1. Product identifier

Product form : Mixture
Trade name : Rubio Monocoat LED Oil

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

1.2.1. Relevant identified uses

Intended for general public
Main use category : Industrial use

1.2.2. Uses advised against

No additional information available

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

Country	Official advisory body	Address	Emergency number	Comment
Australia	NSW Poisons Information Centre The Children's Hospital at Westmead	Locked Bag 4001 NSW 2145 Westmead	13 11 26	
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	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]

Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Skin sensitisation, Category 1	H317
Reproductive toxicity, Category 2	H361
Hazardous to the aquatic environment – Chronic Hazard, Category 2	H411

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

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements

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

Hazard pictograms (CLP)



CLP Signal word

Contains

Hazard statements (CLP)

Precautionary statements (CLP)

- : Warning
- : trimethylolpropane triacrylate esters, pentaerythritol tetrakis(3-mercapto-propionate), trimethylolpropanetriacrylate, stabilised, glycerine propoxylate triacrylate, isopropylidenediphenyl bisoxhydroxypropyl acrylate, diphenyl(2,4,6-trimethylbenzoyl)phosphineoxide
- : H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H361 - Suspected of damaging fertility or the unborn child.
H411 - Toxic to aquatic life with long lasting effects.
- : P102 - Keep out of reach of children.
P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P261 - Avoid breathing vapours, mist.
P264 - Wash hands, forearms and face thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace.

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.

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

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

Component	
2-hydroxy-2-methylpropiophenone (7473-98-5)	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
pentaerythritol tetrakis(3-mercapto-propionate) (7575-23-7)	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
glycerine propoxylate triacrylate (52408-84-1)	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

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3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
trimethylolpropane triacrylate esters	CAS-No.: 28961-43-5 EC-No.: 500-066-5 REACH-no: 01-2119489900-30	25 – 45	Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412
unsaturated polyester resin	-	15 – 22	Eye Irrit. 2, H319
trimethylolpropanetriacrylate, stabilised	CAS-No.: 15625-89-5 EC-No.: 239-701-3 EC Index-No.: 607-111-00-9 REACH-no: 01-2119489896-11	12 – 15	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
diphenyl(2,4,6-trimethylbenzoyl)phosphineoxide	CAS-No.: 75980-60-8 EC-No.: 278-355-8 EC Index-No.: 015-203-00-X REACH-no: 01-2119972295-29	≤ 6	Repr. 2, H361f
2-hydroxy-2-methylpropiophenone	CAS-No.: 7473-98-5 EC-No.: 231-272-0 REACH-no: 01-2119472306-39	≤ 6	Acute Tox. 4 (Oral), H302 Aquatic Chronic 3, H412
pentaerythritol tetrakis(3-mercapto-propionate)	CAS-No.: 7575-23-7 EC-No.: 231-472-8 REACH-no: 01-2119486981-23	2 – 3	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
glycerine propoxylate triacrylate	CAS-No.: 52408-84-1 EC-No.: 500-114-5 REACH-no: 01-2119487948-12	0,9 – 1,1	Skin Sens. 1, H317 Eye Irrit. 2, H319
isopropylidenediphenyl bisoxyhydroxypropyl acrylate	CAS-No.: 55818-57-0 EC-No.: 500-130-2 REACH-no: 01-2119490020-53	0,4 – 0,5	Skin Sens. 1, H317 Aquatic Chronic 2, H411

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. irritation persists.
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.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : hazy water, carbon dioxide (CO₂), foam and powder.
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. Notify police and fire brigade as soon as possible.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Collect spillage.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.
Methods for cleaning up : This material and its container must be disposed of in a safe way, and as per local legislation.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

No additional information available

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

No additional information available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

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

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Avoid contact with skin. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

8.2.2. Personal protection equipment

Personal protective equipment:

Safety glasses. Face shield. Gloves.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses. Face shield

Eye protection

Type	Use	Characteristics	Standard
Face shield, Safety glasses			

8.2.2.2. Skin protection

Skin and body protection:

Protective clothing

Hand protection:

Gloves

Hand protection

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	>0,56		EN ISO 374-1

8.2.2.3. Respiratory protection

Respiratory protection:

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Respiratory protection			
Device	Filter type	Condition	Standard
Full face mask	Type A - High-boiling (>65 °C) organic compounds		

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:

Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke in areas where product is used. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Various colours.
Appearance	: Liquid.
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	: > 1 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

Keep away from oxidising agents and strongly alkaline and strongly acidic materials to prevent the possibility of exothermic reaction. Stable in use and storage conditions as recommended in item 7.

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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

bases. Acids. oxidizing agents.

10.6. Hazardous decomposition products

Fire may liberate carbon oxides (CO) and smoke.

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

trimethylolpropane triacrylate esters (28961-43-5)

LD50 oral rat	> 5000 mg/kg
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pentaerythritol tetrakis(3-mercapto-propionate) (7575-23-7)

LD50 oral rat	1000 – 2000 mg/kg bodyweight
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trimethylolpropanetriacrylate, stabilised (15625-89-5)

LD50 oral rat	3680 mg/kg
LD50 dermal rabbit	5170 mg/kg
LC50 Inhalation - Rat	> 0,55 mg/l

glycerine propoxylate triacrylate (52408-84-1)

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

diphenyl(2,4,6-trimethylbenzoyl)phosphineoxide (75980-60-8)

LD50 oral rat	> 5000 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight

2-hydroxy-2-methylpropiophenone (7473-98-5)

LD50 oral rat	1694 mg/kg
LD50 dermal rat	6929 mg/kg

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified

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Aspiration hazard : Not classified

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Ecological problems are not known or expected under normal use.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

trimethylolpropane triacrylate esters (28961-43-5)

LC50 fish 1	1,95 mg/l (Branchydanio rerio; 96h)
EC50 Daphnia 1	70,7 mg/l (Daphnia magna; 48h)
ErC50 (algae)	2,2 mg/l (Desmodesmus subspicatus; 72h)

pentaerythritol tetrakis(3-mercapto-propionate) (7575-23-7)

LC50 fish 1	0,034 mg/l
EC50 Daphnia 1	> 0,35 mg/l
ErC50 (algae)	> 0,12 mg/l

trimethylolpropanetriacrylate, stabilised (15625-89-5)

LC50 fish 1	0,87 Brachydanio rerio
EC50 Daphnia 1	19,9 mg/l
EC50 72h - Algae [1]	18,8 mg/l Scenedesmus subspicatus
NOEC chronic fish	0,89 mg/l Brachydanio rerio

glycerine propoxylate triacrylate (52408-84-1)

LC50 fish 1	5,74 mg/l
EC50 Daphnia 1	91,4 mg/l
EC50 72h - Algae [1]	12,2 mg/l

diphenyl(2,4,6-trimethylbenzoyl)phosphineoxide (75980-60-8)

LC50 fish 1	1 – 10 mg/l
LC50 fish 2	10 – 100 mg/l (96 h; Leuciscus idus)
EC50 Daphnia 1	10 – 100 mg/l
EC50 other aquatic organisms 1	> 1 mg/l (0.5 h)
EC50 72h - Algae [1]	10 – 100 mg/l
Threshold limit algae 1	> > 10 / 100,72 h; Algae

2-hydroxy-2-methylpropiophenone (7473-98-5)

LC50 fish 1	160 mg/l
EC50 Daphnia 1	> 119 mg/l
ErC50 (algae)	1,95 mg/l
Threshold limit algae 1	0,64 mg/l (72 h; Chlorophyta)

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12.2. Persistence and degradability

trimethylolpropane triacrylate esters (28961-43-5)

Persistence and degradability	No data available.
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pentaerythritol tetrakis(3-mercapto-propionate) (7575-23-7)

Persistence and degradability	No data available.
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trimethylolpropanetriacrylate, stabilised (15625-89-5)

Persistence and degradability	No data available.
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ThOD	1,835 g O ₂ /g substance
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12.3. Bioaccumulative potential

trimethylolpropane triacrylate esters (28961-43-5)

Bioaccumulative potential	No data available.
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pentaerythritol tetrakis(3-mercapto-propionate) (7575-23-7)

BCF fish 1	23,7
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Log Pow	2,8
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Bioaccumulative potential	No data available.
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trimethylolpropanetriacrylate, stabilised (15625-89-5)

Bioaccumulative potential	No data available.
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glycerine propoxylate triacrylate (52408-84-1)

Log Pow	2,52
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diphenyl(2,4,6-trimethylbenzoyl)phosphineoxide (75980-60-8)

BCF fish 1	< 40
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2-hydroxy-2-methylpropiophenone (7473-98-5)

Log Pow	1,62
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12.4. Mobility in soil

pentaerythritol tetrakis(3-mercapto-propionate) (7575-23-7)

Log Koc	2,42
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glycerine propoxylate triacrylate (52408-84-1)

Surface tension	46 mN/m
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Log Koc	2
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2-hydroxy-2-methylpropiophenone (7473-98-5)

Log Koc	1,028 – 1,307
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Ecology - soil	Very mobile in the soil.
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12.5. Results of PBT and vPvB assessment

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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

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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

SECTION 14: Transport information

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

14.1. UN number or ID number

UN-No. : Not applicable

UN-No. (IMDG) : Not applicable

UN-No. (ICAO) : Not applicable

UN-No. (ADN) : Not applicable

UN-No. (RID) : Not applicable

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable

Proper Shipping Name (IMDG) : Not applicable

Proper Shipping Name (IATA) : Not applicable

Proper Shipping Name (ADN) : Not applicable

Proper Shipping Name (RID) : Not applicable

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

ADN

Transport hazard class(es) (ADN) : Not applicable

RID

Transport hazard class(es) (RID) : Not applicable

14.4. Packing group

Packing group (ADR) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

Packing group (ADN) : Not applicable

Packing group (RID) : Not applicable

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14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

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

15.1.1. EU-Regulations

EU restriction list (REACH Annex XVII)

Reference code	Applicable on
3(b)	trimethylolpropane triacrylate esters ; pentaerythritol tetrakis(3-mercapto-propionate) ; glycerine propoxylate triacrylate ; isopropylidenediphenyl bisoxyhydroxypropyl acrylate ; trimethylolpropanetriacrylate, stabilised ; 2-hydroxy-2-methylpropiophenone
3(c)	pentaerythritol tetrakis(3-mercapto-propionate) ; trimethylolpropanetriacrylate, stabilised ; 2-hydroxy-2-methylpropiophenone

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 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 drug precursors)

15.1.2. National regulations

Germany

Water hazard class (WGK) : WGK 2, significant hazard to water (Not classified according to Regulation Governing Systems for Handling Substances Hazardous to Waters (AwSV))

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

Netherlands

SZW-list of carcinogenic substances : The substance is not listed

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SZW-list of mutagenic substances : The substance is not listed

NON-exhaustive list of reprotoxic substances - Breastfeeding : The substance is not listed

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : The substance is not listed

NON-exhaustive list of reprotoxic substances - Development : The substance is not listed

Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

Switzerland

Storage class (LK) : LK 6.1 - Toxic materials

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:	
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 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H361	Suspected of damaging fertility or the unborn child.
H361f	Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1

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.