### according to Regulation (EC) No. 1907/2006 (REACH)

Coating Systems

**Z** ] ZOBEL

according to Regulation (EU) 2020/878

XPH2-0000-04L [Z] ZowoTec® 421

Revision date 1 Jul 2025 Print date 1 Jul 2025 Version 6.0

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

#### **Product identifier**

#### Trade name/designation

XPH2-0000-04L [Z] ZowoTec® 421

TopCoat UVPlusX

Basis EL

UFI: KHYN-50M9-N00M-XAHT

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

paint and/or paint-related material

#### Relevant identified uses

Reserved for industrial and professional use.

#### 1.3 Details of the supplier of the safety data sheet

#### Supplier

Berger-Zobel GmbH Coating Systems

Maybachstr. 2 Telephone: +49 6359 8005-0 67269 Grünstadt E-mail: info@berger-zobel.de Website: www.berger-zobel.de Germany

#### Department responsible for information

E-mail (competent person) Sicherheitsdaten@berger-zobel.de

1.4 Emergency telephone number

Emergency telephone number +49 700 24112112

24 hr. emergency phone number

#### **SECTION 2: Hazards identification**

#### Classification of the substance or mixture

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

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

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

#### Hazard pictograms



GHS07

#### Signal word

Warning

#### **Hazard statements**

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

#### **Precautionary statements**

Wear protective gloves and eye protection/face protection.

#### Hazard components for labelling

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one

Adipohydrazide

Hydroxyphenyl-benzotriazole derivatives

Reaction mass of bis(1,2,2,6,6-pentamethylpiperidin-4-yl) sebacate and methyl 1,2,2,6,6-pentamethylpiperidin-4-yl sebacate

Reaction mass aus: 5-Chlor-2-methyl-2H-isothiazol-3-on [EG nr. 247-500-7] und 2-Methyl-2H-isothiazol-3-on [EG nr. 220-239-6] (3:1)

#### Supplemental hazard information

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not applicable

#### 2.3 Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### **SECTION 3: Composition/information on ingredients.**

#### 3.2 Mixtures

#### Description

#### **Hazardous ingredients**

	CAS No. EC No. Index No.	Substance name REACH No. Classification according to Regulation (EC) No 1272/2008 [CLP]	weight-%
•	34590-94-8 252-104-2	(2-methoxymethylethoxy)propanol 01-2119450011-60-XXXX Substance with a common (EC) occupational exposure limit value.	2,50 < 3,00
	- 400-830-7 607-176-00-3	Hydroxyphenyl-benzotriazole derivatives 01-0000015075-76-XXXX Skin Sens. 1A H317 / Aquatic Chronic 2 H411	1,00 < 2,00
	1065336-91-5 915-687-0 -	Reaction mass of bis(1,2,2,6,6-pentamethylpiperidin-4-yl) sebacate and methyl 1,2,2,6,6-pentamethylpiperidin-4-yl sebacate 01-2119491304-40-XXXX Skin Sens. 1A H317 / Repr. 2 H361 / Aquatic Acute 1 H400 / Aquatic Chronic 1 H410	0,500 < 1,00
•	68526-86-3 271-235-6	Alcohols, C11-14-iso-, C13-rich 01-2119454259-32-XXXX Skin Irrit. 2 H315 / Aquatic Acute 1 H400 (M = 1,00) / Aquatic Chronic 2 H411	0,300 < 0,500
	1071-93-8 213-999-5 -	Adipohydrazide 01-2119962900-36-XXXX Skin Sens. 1 H317 / Aquatic Chronic 2 H411	0,150 < 0,200
•	2634-33-5 220-120-9 613-088-00-6	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one 01-2120761540-60-XXXX Acute Tox. 4 H302 / Skin Irrit. 2 H315 / Skin Sens. 1 H317 / Eye Dam. 1 H318 / Aquatic Acute 1 H400 Specific concentration limit (SCL) Skin Sens. 1 H317: >= 0,05 ATE (dermal): > 2,000 mg/kg ATE (oral): 454 mg/kg	0,025 < 0,050
	55965-84-9 - 613-167-00-5	Reaction mass aus: 5-Chlor-2-methyl-2H-isothiazol-3-on [EG nr. 247-500-7] und 2-Methyl-2H-isothiazol-3-on [EG nr. 220-239-6] (3:1) 01-2120764691-48-XXXX  Acute Tox. 3 H301 / Acute Tox. 2 H310 / Skin Corr. 1C H314 / Skin Sens. 1A H317 / Eye Dam. 1 H318 / Acute Tox. 2 H330 / Aquatic Acute 1 H400 (M = 100,00 ) / Aquatic Chronic 1 H410 (M = 100,00 ) / EUH071  Specific concentration limit (SCL)  Eye Irrit. 2 H319: >= 0,06 / Skin Sens. 1A H317: >= 0,0015 / Eye Dam. 1 H318: >= 0,60 / Skin Irrit. 2 H315: >= 0,06 / Skin Corr. 1C H314: >= 0,60	0,0001 < 0,001

#### Remark

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

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

#### **General information**

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

#### Following inhalation

In case of irregular breathing or respiratory arrest provide artificial respiration. Remove casualty to fresh air and keep warm and at rest.

#### Following skin contact

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Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

#### After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

#### Following ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

#### Self-protection of the first aider

First aider: Pay attention to self-protection!

#### .2 Most important symptoms and effects, both acute and delayed

#### **Symptoms**

In all cases of doubt, or when symptoms persist, seek medical advice.

#### Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

#### Suitable extinguishing media

alcohol resistant foam, Carbon dioxide (CO2), Powder, spray mist, (water)

#### Unsuitable extinguishing media

Strong water jet

#### 5.2 Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

#### 5.3 Advice for firefighters

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Ventilate affected area. Do not breathe vapours.

#### 6.2 Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

#### 6.3 Methods and material for containment and cleaning up

#### For containment

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).

#### For cleaning up

Clean using cleansing agents. Do not use solvents.

#### 6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: refer to section 8

Disposal: see section 13

#### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

#### Advices on safe handling

Avoid contact with skin, eyes and clothes. Personal protection equipment: see section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

#### Advices on general occupational hygiene

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When using do not eat, drink or smoke.

#### 7.2 Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

#### Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

Storage class LGK12 - non

LGK12 - non-combustible liquids that cannot be assigned to any of the above storage classes

#### Further information on storage conditions

Keep container tightly closed. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Store in a well-ventilated and dry room at temperatures between 5 °C and 25 °C.

#### 7.3 Specific end use(s)

Observe technical data sheet.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### Occupational exposure limit values

	CAS No.	Substance name	Source	Long-term /short-term (Spitzenbegrenzung)
*	34590-94-8	(2-methoxymethylethoxy)propanol		308 / - ( - ) mg/m³ (may be absorbed through the skin)

#### **Additional information**

Long-term: Long-term occupational exposure limit value short-term: short-term occupational exposure limit value

#### **Biological limit values**

No data available

#### **DNEL** worker

CASI	o. Subs	tance name	DNEL type	DNEL value
* 34590-94-8	(2-methoxymethyletho	xy)propanol	Long-term – inhalation, systemic effects	308 mg/m <sup>3</sup>
* 34590-94-8	(2-methoxymethyletho	xy)propanol	Long-term - dermal, systemic effects	283 mg/kg bw/day
* 2634-33-5	1,2-benzisothiazol-3(2 benzisothiazolin-3-one		Long-term – inhalation, systemic effects	6.81 mg/m³
2634-33-5	1,2-benzisothiazol-3(2 benzisothiazolin-3-one		Long-term - dermal, systemic effects	0.966 mg/kg bw/day
1071-93-8	Adipohydrazide		Long-term – inhalation, systemic effects	17.5 mg/m <sup>3</sup>
68526-86-3	Alcohols, C11-14-iso-,	C13-rich	Long-term – inhalation, systemic effects	147.9 mg/m³
68526-86-3	Alcohols, C11-14-iso-,	C13-rich	Long-term - dermal, systemic effects	417 mg/kg bw/day
-	Hydroxyphenyl-benzot	riazole derivatives	DNEL long-term dermal (systemic)	0.25 mg/kg
<u>-</u>	Hydroxyphenyl-benzot	riazole derivatives	DNEL long-term inhalative (systemic)	0.35 mg/m³
55965-84-9	Reaction mass aus: 5- isothiazol-3-on [EG nr. Methyl-2H-isothiazol-3	Chlor-2-methyl-2H- 247-500-7] und 2- -on [EG nr. 220-239-6] (3:1)	Acute - inhalation, local effects	0.04 mg/m³
55965-84-9	Reaction mass aus: 5- isothiazol-3-on [EG nr. Methyl-2H-isothiazol-3		Long-term – inhalation, local effects	0.02 mg/m³
1065336-9	Reaction mass of bis(1	,2,2,6,6-	Long-term – inhalation,	1.27 mg/m³

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		pentamethylpiperidin-4-yl) sebacate and methyl 1,2,2,6,6-pentamethylpiperidin-4-yl sebacate	systemic effects	
*	1065336-91-5	Reaction mass of bis(1,2,2,6,6-pentamethylpiperidin-4-yl) sebacate and methyl 1,2,2,6,6-pentamethylpiperidin-4-yl sebacate	Long-term - dermal, systemic effects	1.8 mg/kg bw/day

#### **DNEL Consumer**

CAS No.	Substance name	DNEL type	DNEL value
34590-94-8	(2-methoxymethylethoxy)propanol	Long-term – inhalation, systemic effects	37.2 mg/m³
34590-94-8	(2-methoxymethylethoxy)propanol	Long-term - dermal, systemic effects	121 mg/kg bw/day
34590-94-8	(2-methoxymethylethoxy)propanol	Long-term - oral, systemic effects	36 mg/kg bw/day
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	Long-term – inhalation, systemic effects	1.2 mg/m³
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	Long-term - dermal, systemic effects	0.345 mg/kg bw/day
68526-86-3	Alcohols, C11-14-iso-, C13-rich	Long-term – inhalation, systemic effects	43.5 mg/m³
68526-86-3	Alcohols, C11-14-iso-, C13-rich	Long-term - dermal, systemic effects	250 mg/kg bw/day
68526-86-3	Alcohols, C11-14-iso-, C13-rich	Long-term - oral, systemic effects	25 mg/kg bw/day
-	Hydroxyphenyl-benzotriazole derivatives	DNEL long-term dermal (systemic)	0.025 mg/kg
-	Hydroxyphenyl-benzotriazole derivatives	DNEL long-term inhalative (systemic)	0.085 mg/m³
55965-84-9	Reaction mass aus: 5-Chlor-2-methyl-2H-isothiazol-3-on [EG nr. 247-500-7] und 2-Methyl-2H-isothiazol-3-on [EG nr. 220-239-6] (3:1)	Long-term – inhalation, local effects	0.02 mg/m³
55965-84-9	Reaction mass aus: 5-Chlor-2-methyl-2H-isothiazol-3-on [EG nr. 247-500-7] und 2-Methyl-2H-isothiazol-3-on [EG nr. 220-239-6] (3:1)	Acute - inhalation, local effects	0.04 mg/m³
55965-84-9	Reaction mass aus: 5-Chlor-2-methyl-2H-isothiazol-3-on [EG nr. 247-500-7] und 2-Methyl-2H-isothiazol-3-on [EG nr. 220-239-6] (3:1)	Long-term - oral, systemic effects	0.09 mg/kg bw/day
1065336-91-5	Reaction mass of bis(1,2,2,6,6-pentamethylpiperidin-4-yl) sebacate and methyl 1,2,2,6,6-pentamethylpiperidin-4-yl sebacate	Long-term – inhalation, systemic effects	0.31 mg/m³
1065336-91-5	Reaction mass of bis(1,2,2,6,6-pentamethylpiperidin-4-yl) sebacate and methyl 1,2,2,6,6-pentamethylpiperidin-4-yl sebacate	Long-term - dermal, systemic effects	0.9 mg/kg bw/day
1065336-91-5	Reaction mass of bis(1,2,2,6,6-pentamethylpiperidin-4-yl) sebacate and methyl 1,2,2,6,6-pentamethylpiperidin-4-yl sebacate	Long-term - oral, systemic effects	0.18 mg/kg bw/day

#### **PNEC**

	CAS No.	Substance name	PNEC type	PNEC Value
*	34590-94-8	(2-methoxymethylethoxy)propanol	aquatic, intermittent release	190 mg/L
*	34590-94-8	(2-methoxymethylethoxy)propanol	aquatic, marine water	1.9 mg/L
*	34590-94-8	(2-methoxymethylethoxy)propanol	sewage treatment plant	4,168 mg/L
*	34590-94-8	(2-methoxymethylethoxy)propanol	sediment, freshwater	70.2 mg/kg sediment dw
*	34590-94-8	(2-methoxymethylethoxy)propanol	sediment, marine water	7.02 mg/kg sediment dw
*	2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	aquatic, intermittent release	1.1 μg/L
*	2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	aquatic, marine water	0.403 μg/L
*	2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-	sewage treatment plant	1.03 mg/L

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XPH2-0000-04L [Z] ZowoTec® 421 Revision date 1 Jul 2025 Print date 1 Jul 2025 Version 6.0 benzisothiazolin-3-one 1,2-benzisothiazol-3(2H)-one; 1,2-2634-33-5 49.9 µg/kg sediment dw sediment freshwater benzisothiazolin-3-one 2634-33-5 1,2-benzisothiazol-3(2H)-one; 1,2sediment, marine water 4.99 µg/kg sediment dw benzisothiazolin-3-one 1071-93-8 Adipohydrazide aquatic, intermittent release 92 µg/L 1071-93-8 Adipohydrazide aquatic, marine water  $6.2 \mu g/L$ 1071-93-8 Adipohydrazide sewage treatment plant 1,000 mg/L 1071-93-8 0.241 mg/kg sediment dw Adipohydrazide sediment, freshwater 0.024 mg/kg sediment dw 1071-93-8 Adipohydrazide sediment, marine water 68526-86-3 Alcohols, C11-14-iso-, C13-rich aquatic, intermittent release 0.004 mg/L Alcohols, C11-14-iso-, C13-rich 68526-86-3 aquatic, marine water  $0.5 \mu g/L$ 68526-86-3 Alcohols, C11-14-iso-, C13-rich 105.3 mg/L sewage treatment plant 68526-86-3 Alcohols, C11-14-iso-, C13-rich sediment, freshwater 0.37 mg/kg sediment dw 68526-86-3 Alcohols, C11-14-iso-, C13-rich sediment, marine water 0.04 mg/kg sediment dw Hydroxyphenyl-benzotriazole derivatives PNEC soil, freshwater 2 mg/kg Hydroxyphenyl-benzotriazole derivatives PNEC sediment, marine water 0.337 mg/kg Hydroxyphenyl-benzotriazole derivatives PNEC sediment, freshwater 3.37 mg/kg Hydroxyphenyl-benzotriazole derivatives PNEC sewage treatment plant 10 mg/L (STP) Hydroxyphenyl-benzotriazole derivatives PNEC aquatic, intermittent 23 µg/L release Hydroxyphenyl-benzotriazole derivatives PNEC aquatic, marine water  $0.23 \mu g/L$ Hydroxyphenyl-benzotriazole derivatives PNEC aquatic, freshwater  $2.3 \mu g/L$ 55965-84-9 Reaction mass aus: 5-Chlor-2-methyl-2Haquatic, intermittent release  $3.39 \mu g/L$ isothiazol-3-on [EG nr. 247-500-7] und 2-Methyl-2H-isothiazol-3-on [EG nr. 220-239-6] (3:1) 55965-84-9 Reaction mass aus: 5-Chlor-2-methyl-2H- $3.39 \mu g/L$ aquatic, marine water isothiazol-3-on [EG nr. 247-500-7] und 2-Methyl-2H-isothiazol-3-on [EG nr. 220-239-6] (3:1) 55965-84-9 Reaction mass aus: 5-Chlor-2-methyl-2Hsewage treatment plant 0.23 mg/L isothiazol-3-on [EG nr. 247-500-7] und 2-Methyl-2H-isothiazol-3-on [EG nr. 220-239-6] (3:1) 55965-84-9 Reaction mass aus: 5-Chlor-2-methyl-2Hsediment, freshwater 0.027 mg/kg sediment dw isothiazol-3-on [EG nr. 247-500-7] und 2-Methyl-2H-isothiazol-3-on [EG nr. 220-239-6] (3:1) 55965-84-9 Reaction mass aus: 5-Chlor-2-methyl-2Hsediment, marine water 0.027 mg/kg sediment dw isothiazol-3-on [EG nr. 247-500-7] und 2-Methyl-2H-isothiazol-3-on [EG nr. 220-239-6] (3:1) 1065336-91-5 Reaction mass of bis(1,2,2,6,6aquatic, intermittent release 0.009 mg/L pentamethylpiperidin-4-yl) sebacate and methyl 1,2,2,6,6-pentamethylpiperidin-4-yl sebacate 1065336-91-5 Reaction mass of bis(1,2,2,6,6aquatic, marine water 0 mg/L pentamethylpiperidin-4-yl) sebacate and methyl 1,2,2,6,6-pentamethylpiperidin-4-yl sebacate 1065336-91-5 Reaction mass of bis(1,2,2,6,6sewage treatment plant 1 mg/L pentamethylpiperidin-4-yl) sebacate and methyl 1,2,2,6,6-pentamethylpiperidin-4-yl sebacate 1065336-91-5 Reaction mass of bis(1,2,2,6,6sediment, freshwater 1.05 mg/kg sediment dw pentamethylpiperidin-4-yl) sebacate and methyl 1,2,2,6,6-pentamethylpiperidin-4-yl sebacate 1065336-91-5 Reaction mass of bis(1,2,2,6,6sediment, marine water 0.11 mg/kg sediment dw pentamethylpiperidin-4-yl) sebacate and methyl 1,2,2,6,6-pentamethylpiperidin-4-yl sebacate

#### 8.2 Exposure controls

Provide good ventilation. This can be achieved with local or room suction.

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#### Personal protection equipment

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

#### **Hand protection**

Suitable material: NBR (Nitrile rubber)
Thickness of the glove material >= 0.4 mm

Breakthrough time >= 480 min

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles: EN ISO 374

#### Skin protection

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

#### Eye/face protection

Eye glasses with side protection: EN 166

#### **Body protection**

When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn. Antistatic clothing including shoes are recommended.

#### **Environmental exposure controls**

Do not allow to enter into surface water or drains.

#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Physical state Liquid
Colour whitish

Odour characteristic

pH at 20.0 °C (100%) 8 - 9 DIN EN ISO 19396-1

Melting point/freezing point not determined

Initial boiling point and boiling range 100 °C

Source: Water

Flash point not applicable flammability not applicable Lower explosion limit at 20°C 1.1 Vol-%

Source: (2-n

Source: (2-methoxymethylethoxy)propanol

Upper explosion limit at 20°C 14 Vol-%

Source: (2-methoxymethylethoxy)propanol

Vapour pressure at 20°C

Relative vapour density

Density at 20 °C

Water solubility at 20°C

31.83 mbar

not applicable

1.04 kg/l

partially soluble

Partition coefficient: n-octanol/water see section 12

Ignition temperature in °C 207 °C

Source: (2-methoxymethylethoxy)propanol

Decomposition temperature not determined

Viscosity at 20 °C hochviskos

particle characteristics not applicable

9.2 Other information

Solid content 34.0 % solvent content 3.0 %

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Water content 63 %

#### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

#### 10.2 Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

#### 10.3 Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

#### 10.4 Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

#### 10.5 Incompatible materials

No further relevant information available.

#### 10.6 Hazardous decomposition products

Decomposition products in case of fire: see section 5.

#### **SECTION 11: Toxicological information**

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

#### **Acute toxicity**

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

#### 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one

LD50: dermal (Rat): > 2,000 mg/kg

LD50: oral (Rat): 454 mg/kg

#### Skin corrosion/irritation

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

#### Serious eye damage/eye irritation

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

#### Respiratory or skin sensitisation

May cause an allergic skin reaction.

#### Overall assessment on CMR properties

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

#### STOT-single exposure

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

#### STOT-repeated exposure

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

#### **Aspiration hazard**

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

#### Practical experience/human evidence

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: Headache, Dizziness, fatigue, amyosthenia, Dizziness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

#### 11.2 Information on other hazards

#### **Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

#### **SECTION 12: Ecological information**

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#### 12.1 Toxicity

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Harmful to aquatic life with long lasting effects.

#### Acute (short-term) fish toxicity

#### 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one

LC50: (Oncorhynchus mykiss (Rainbow trout)): 1.6 mg/L (96 h)

#### \* Acute (short-term) toxicity to aquatic invertebrates

EC50 (Americamysis bahia): 989.3 µg/L (96 h)

#### Chronic (long-term) toxicity to aquatic invertebrate

Reaction mass aus: 5-Chlor-2-methyl-2H-isothiazol-3-on [EG nr. 247-500-7] und 2-Methyl-2H-isothiazol-3-on [EG nr. 220-239-6] (3:1)

NOEC (Daphnia magna (Big water flea)): 0.004 mg/L (21 d)

#### 12.2 Persistence and degradability

#### (2-methoxymethylethoxy)propanol

Biodegradation = 75 % (28 d)

Biodegradation = 93 % (13 d)

#### 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one

Biodegradation = 90 %

#### 12.3 Bioaccumulative potential

#### (2-methoxymethylethoxy)propanol

Partition coefficient: n-octanol/water = 1.01

Partition coefficient: n-octanol/water = 0.81 (Reaction mass aus: 5-Chlor-2-methyl-2H-isothiazol-3-on [EG nr. 247-500-7] und 2-Methyl-2H-isothiazol-3-on [EG nr. 220-239-6] (3:1))

#### 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one

\* = 0.7

Partition coefficient: n-octanol/water = -2.4 (Adipohydrazide)

- \* Partition coefficient: n-octanol/water = 4.8 (Alcohols, C11-14-iso-, C13-rich)
- Partition coefficient: n-octanol/water > 1.52 (Reaction mass of bis(1,2,2,6,6-pentamethylpiperidin-4-yl) sebacate and methyl
   1,2,2,6,6-pentamethylpiperidin-4-yl sebacate)
- \* Partition coefficient: n-octanol/water = 0.35 ((2-methoxymethylethoxy)propanol)
- \* Partition coefficient: n-octanol/water = 0.64 (1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one)

#### 12.4 Mobility in soil

No information available.

#### 12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

#### 12.6 Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### 12.7 Other adverse effects

No information available.

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### Product/Packaging disposal

Do not empty into drains; dispose of this material and its container in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

#### Waste codes/waste designations according to EWC/AVV

080111\* - Waste paint and varnish containing organic solvents or other dangerous substances

\* Hazardous waste according to Directive 2008/98/EC (waste framework directive).

#### Other disposal recommendations

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

#### **SECTION 14: Transport information**

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### according to Regulation (EC) No. 1907/2006 (REACH)



according to Regulation (EU) 2020/878

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#### 14.1 UN number or ID number

not applicable

#### 14.2 UN proper shipping name

#### Land transport (ADR/RID)

No dangerous good in sense of these transport regulations.

#### Sea transport (IMDG)

No dangerous good in sense of these transport regulations.

#### Air transport (ICAO-TI / IATA-DGR)

No dangerous good in sense of these transport regulations.

#### 14.3 Transport hazard class(es)

not applicable

#### 14.4 Packing group

not applicable

#### 14.5 Environmental hazards

Land transport (ADR/RID) not applicable Sea transport (IMDG) not applicable

#### 14.6 Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

#### 14.7 Maritime transport in bulk according to IMO instruments

No transport as bulk according to IBC Code.

#### 14.8 Additional information

#### Land transport (ADR/RID)

not applicable

#### Sea transport (IMDG)

not applicable

#### Air transport (ICAO-TI / IATA-DGR)

not applicable

#### **SECTION 15: Regulatory information**

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

#### **EU** legislation

#### Authorisations and/or restrictions on use

#### Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)

Use restriction according to REACH annex XVII, no.: 03

#### Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive 92/85/EEC or stricter national regulations, if applicable. Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC) or stricter national regulations, if applicable.

#### Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]

VOC value: 31 q/l

#### Directive 2004/42/EC on the limitation of emissions of volatile organic compounds

VOC limit value: 2004/42/IIA(d): 130 g/l (2010)

Maximum VOC content of the product in a ready to use condition: 36 g/L. This product meets the requirements of Regulation (EC) No. 1935/2004 on the limitation of VOC content.

#### Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive] Hazard categories / Named dangerous substances

This product is not classified according to Directive 2012/18/EU.

#### **National regulations**

Observe in addition any national regulations!

#### 15.2 Chemical Safety Assessment

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#### according to Regulation (EC) No. 1907/2006 (REACH) according to Regulation (EU) 2020/878



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Chemical safety assessments for substances in this mixture were not carried out.

#### **SECTION 16: Other information**

#### List of relevant hazard statements and/or precautionary statements from sections 2 to 15

H301 Toxic if swallowed. H302 Harmful if swallowed. H310 Fatal in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

May cause an allergic skin reaction. H317 H318 Causes serious eye damage.

Fatal if inhaled. H330

Suspected of damaging fertility or the unborn child (state specific effect if known) (state route of exposure H361

if it is conclusively proven that no other routes of exposure cause the hazard).

H400 Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects. H410 Toxic to aquatic life with long lasting effects. H411

**EUH071** Corrosive to the respiratory tract.

#### Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Calculation method. Skin Sens. 1 Calculation method. Aquatic Chronic 3 Key literature references and sources for data

Data arise from reference works and literature.

#### Abbreviations and acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

OEL: Occupational Exposure Limit Value

BLV: Biological limit values

CAS: Chemical Abstracts Service

CLP: Classification, Labelling and Packaging CMR: Carcinogenic, Mutagenic and Reprotoxic

DIN: German Institute for Standardization / German industrial standard

**DNEL: Derived No-Effect Level** 

EAKV: European Waste Catalogue Directive

EC: Effective Concentration EC: European Community EN: European Standard

EU/EEA: European Economic Area

IATA-DGR: International Air Transport Association – Dangerous Goods Regulations

IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

ICAO-TI: International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG Code: International Maritime Code for Dangerous Goods

ISO: International Organization for Standardization

LC: Lethal Concentration LD: Lethal Dose

MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships

OECD: Organisation for Economic Cooperation and Development

PBT: persistent, bioaccumulative, toxic PNEC: Predicted No Effect Concentration

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

**UN: United Nations** 

VOC: Volatile Organic Compounds

vPvB: very persistent and very bioaccumulative

#### Indication of changes

\* Data changed compared with the previous version.

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