

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended



V2115 Water-based single-coat paint for steel and light metals, matt AQUAREX

Creation date	21st July 2017	Version	4.0
Revision date	24th March 2026		

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

1.1. Product identifier

Substance / mixture
Number
Other mixture names

V2115 Water-based single-coat paint for steel and light metals, matt AQUAREX mixture
V2115-: A-C...; A-R...; B-V...; and the customer variants listed below

V2115-: Z1R1003; Z1R1004; Z1R1032; Z1R3001; Z1R3009; Z1R3011; Z1R3031; Z1R4007; Z1R5013; Z1R6002; Z1R6003; Z1R6018; Z1R7002; Z1R7043; Z1R8012; Z1R9005
V2115-: Z1Z0F80; Z1Z1116
V2115-: Z2R5003; Z2R7000; Z2R7035; Z2R9010
V2115-: Z3R3020; Z3R5010; Z3R7016; Z3R9003
V2115-: Z4R5010; Z4R5015; Z4R8012
V2115-: Z7R8012

1.2. Relevant identified uses of the substance or mixture and uses advised against Mixture's intended use

AQUAREX V2115 serves as a single-layer anti-corrosion paint with a dry layer thickness of at least 100 µm. The paint can also be used as a base coat, especially in water-based coatings.

Main intended use

PC-PNT-3 Paints/coatings - Protective and functional

Mixture uses advised against

The product should not be used in ways other than those referred in Section 1.
Exposure scenario is attached to the Safety Data Sheet.

1.3. Details of the supplier of the safety data sheet

Manufacturer

Name or trade name	COLORLAK, a.s.
Address	Tovární 1076, Staré Město, 686 03 Czech Republic
Identification number (CRN)	49444964
VAT number	CZ49444964
Phone	+420 572527111
Email	colorlak@colorlak.cz
Web address	www.colorlak.cz

Competent person responsible for the safety data sheet

Name	Ing. Gabriela Kubíková
Email	kubikova@colorlak.cz

1.4. Emergency telephone number

European emergency number: 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Aquatic Chronic 3, H412

Most serious adverse physico-chemical effects

PROTECT FROM FROST!

Most serious adverse effects on human health and the environment

Harmful to aquatic life with long lasting effects.

2.2. Label elements

Hazard statements

H412	Harmful to aquatic life with long lasting effects.
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Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.

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P103	Read label before use.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P501	Dispose of contents/container to by handing over to a person authorized to dispose of waste or a site designated by the town.

Supplemental information

EUH208 Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

Density	1.12-1.4 g/cm ³ at 23 °C (manufacturer's methodology B5/TD1-5 (ČSN EN ISO 2811-2))
VOC	0,023 kg/kg
TOC	0,014 kg/kg
Dry matter	≥45 % weight
VOC limit value	cat. A (i) WB: 140 g/l
Max. VOC content in the product in its ready to use condition	29 g/l

2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. Does not contain any PMT or vPvM components. The titanium dioxide contained contains < 1% particles with an aerodynamic diameter ≤ 10 µm and therefore the criteria for classification and additional warnings are not met.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

AQUAREX V2115 paint is an aqueous dispersion of a copolymer based on butyl acrylate and styrene, pigments, fillers, a preservative and special additives.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 13463-67-7 EC: 236-675-5 Registration number: 01-2119489379-17	titanium dioxide	≤19.3	not classified as dangerous	5
CAS: 1317-65-3 EC: 215-279-6	limestone	≤14.2		
CAS: 1309-37-1 EC: 215-168-2 Registration number: 01-2119457614-35-0000	diiron trioxide	≤13.7	not classified as dangerous	
CAS: 14807-96-6 EC: 238-877-9	talc (Mg ₃ H ₂ (SiO ₃) ₄)	≤11.8	not classified as dangerous	
CAS: 84632-65-5 EC: 401-540-3 Registration number: 01-0000015139-70-xxxx	C.I. PIGMENT Red 254	≤5.5	not classified as dangerous	
CAS: 51274-00-1 EC: 257-098-5 Registration number: 01-2119457554-33	Iron hydroxide oxide yellow	≤4	not classified as dangerous	

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 013-002-00-1 CAS: 7429-90-5 EC: 231-072-3 Registration number: 01-2119529243-45	aluminium powder (stabilised)	≤2.1	Flam. Sol. 1, H228 Water-react. 2, H261	4, 8
Index: 015-011-00-6 CAS: 7664-38-2 EC: 231-633-2 Registration number: 01-2119485924-24	acidum phosphoricum	0.6-0.9	Skin Corr. 1B, H314 Specific concentration limit: Skin Corr. 1B, H314: C ≥ 25 % Eye Irrit. 2, H319: 10 % ≤ C < 25 % Skin Irrit. 2, H315: 10 % ≤ C < 25 %	1, 6
Index: 030-013-00-7 CAS: 1314-13-2 EC: 215-222-5 Registration number: 01-2119463881-32	zinc oxide	0.1-1	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	
CAS: 1333-86-4 EC: 215-609-9 Registration number: 01-2119384822-32	carbon black	≤0.41		
Index: 603-014-00-0 CAS: 111-76-2 EC: 203-905-0 Registration number: 01-2119475108-36	2-butoxyethanol	0.2-0.5	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 3, H331 Specific concentration limit: ATE Oral = 1200 mg/kg bw ATE Inhalation (vapor) = 3 mg/l	6
Index: 007-010-00-4 CAS: 7632-00-0 EC: 231-555-9 Registration number: 01-2119471836-27	sodium nitrite	0.1-0.4	Ox. Sol. 3, H272 Acute Tox. 3, H301 Eye Irrit. 2, H319 Aquatic Acute 1, H400 (M=1) Specific concentration limit: ATE Oral = 180 mg/kg bw	
Index: 007-030-00-3 CAS: 7697-37-2 EC: 231-714-2 Registration number: 01-2119487297-23	nitric acid ...%	≤0.04	Ox. Liq. 3, H272 Skin Corr. 1A, H314 Acute Tox. 3, H331 EUH071 Specific concentration limit: Ox. Liq. 3, H272: C ≥ 65 % ATE Inhalation (vapor) = 2,65 mg/l Skin Corr. 1A, H314: C ≥ 20 % Skin Corr. 1B, H314: 5 % ≤ C < 20 %	1, 6
Index: 603-096-00-8 CAS: 112-34-5 EC: 203-961-6 Registration number: 01-2119475104-44	2-(2-butoxyethoxy)ethanol	≤0.03	Eye Irrit. 2, H319	6, 7
Index: 603-027-00-1 CAS: 107-21-1 EC: 203-473-3 Registration number: 01-2119456816-28	ethanediol	≤0.03	Acute Tox. 4, H302 STOT RE 2, H373 (kidneys)	6

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 74336-59-7 EC: 277-823-9 Registration number: 01-2119936828-22-0000	3-[(4-chloro-2-nitrophenyl)azo]-2-methylpyrazolo[5,1-b]quinazolin-9(1H)-one	≤0.003	not classified as dangerous	
Index: 605-001-00-5 CAS: 50-00-0 EC: 200-001-8 Registration number: 01-2119488953-20	formaldehyde ...%	≤0.002	Acute Tox. 3, H301+H311 Skin Corr. 1B, H314 Skin Sens. 1A, H317 Eye Dam. 1, H318 Acute Tox. 2, H330 Muta. 2, H341 Carc. 1B, H350 Specific concentration limit: Skin Corr. 1B, H314: C ≥ 25 % Skin Irrit. 2, H315: 5 % ≤ C < 25 % Eye Irrit. 2, H319: 5 % ≤ C < 25 % STOT SE 3, H335: C ≥ 5 % ATE Inhalation (gases) = 100 ppm ATE Oral = 500 mg/kg bw Skin Sens. 1, H317: C ≥ 0.2 %	1, 2, 3, 7
CAS: 34590-94-8 EC: 252-104-2 Registration number: 01-2119450011-60	(2-methoxymethylethoxy)propanol	≤0.001	not classified as dangerous Specific concentration limit: ATE Oral = 5001 mg/kg bw ATE Inhalation (vapor) = 3,35 mg/l ATE Dermal = 9510 mg/kg bw	6
Index: 613-167-00-5 CAS: 55965-84-9	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	≤0.0007	Acute Tox. 3, H301 Acute Tox. 2, H310+H330 Skin Corr. 1C, H314 Skin Sens. 1A, H317 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) EUH071 Specific concentration limit: Eye Irrit. 2, H319: 0.06 % ≤ C < 0.6 % Skin Sens. 1A, H317: C ≥ 0.0015 % Skin Irrit. 2, H315: 0.06 % ≤ C < 0.6 % Skin Corr. 1C, H314: C ≥ 0.6 % Eye Dam. 1, H318: C ≥ 0.6 % ATE Inhalation (dust/mist) = 0,31 mg/l	1
CAS: 104-76-7 EC: 203-234-3 Registration number: 01-2119487289-20	2-ethylhexan-1-ol	≤0.0001	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 4, H332 STOT SE 3, H335	6

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Notes

- Note B: Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.*
- Note D: Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3 of Annex VI to Regulation (EC) No 1272/2008. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier who places such a substance on the market must state on the label the name of the substance followed by the words "non-stabilised".*
- Note F: This substance may contain a stabiliser. If the stabiliser changes the hazardous properties of the substance, as indicated by the classification in Part 3, classification and labelling should be provided in accordance with the rules for classification and labelling of hazardous mixtures.*
- Note T: This substance may be marketed in a form which does not have the physical hazards as indicated by the classification in the entry in Part 3. If the results of the relevant method or methods in accordance with Part 2 of Annex I of this Regulation show that the specific form of substance marketed does not exhibit this physical property or these physical hazards, the substance shall be classified in accordance with the result or results of this test or these tests. Relevant information, including reference to the relevant test method(s) shall be included in the safety data sheet.*
- Note V: If the substance is to be placed on the market as fibres (with diameter < 3 µm, length > 5 µm and aspect ratio ≥ 3:1) or particles of the substance fulfilling the WHO fibre criteria or as particles with modified surface chemistry, their hazardous properties must be evaluated in accordance with Title II of this Regulation, to assess whether a higher category (Carc. 1B or 1A) and/or additional routes of exposure (oral or dermal) should be applied.*
- A substance for which exposure limits are set.*
- The use of the substance is restricted by Annex XVII of REACH Regulation*
- Explosive precursor*

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes.

If swallowed

Rinse out the mouth with clean water. In the event of issues, find medical help.

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

If inhaled

Not expected.

If on skin

Not expected.

If in eyes

Not expected.

If swallowed

Not expected.

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

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

It is not a flammable liquid.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose.

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Content	Packaging type	Material of package
0,6 l	can / tin	
1 l	can / tin	
4 l	bucket	
9 l	bucket	
18 l	bucket	
10 kg	bucket	
20 kg	bucket	
21 kg	bucket	
22 kg	bucket	
30 kg	bucket	
140 kg	barrel / drum	
150 kg	barrel / drum	
200 kg	barrel / drum	
145 kg	barrel / drum	
999 kg	IBC (intermediate bulk container)	

Storage class

12 - Non-combustible liquids that cannot be assigned to any of the above storage classes

Storage temperature

+5 až +25 °C

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

European Union

Commission Directive (EU) 2017/164

Substance name (component)	Type	Value
2-ethylhexan-1-ol (CAS: 104-76-7)	OEL 8 hours	5,4 mg/m ³
	OEL 8 hours	1 ppm

European Union

Commission Directive 2000/39/EC

Substance name (component)	Type	Value
acidum phosphoricum (CAS: 7664-38-2)	OEL 8 hours	1 mg/m ³
	OEL 15 minutes	2 mg/m ³

European Union

Commission Directive 2000/39/EC

Substance name (component)	Type	Value
2-butoxyethanol (CAS: 111-76-2)	OEL 8 hours	98 mg/m ³
	OEL 8 hours	20 ppm
	OEL 15 minutes	246 mg/m ³
	OEL 15 minutes	50 ppm
ethanediol (CAS: 107-21-1)	OEL 8 hours	52 mg/m ³
	OEL 8 hours	20 ppm
	OEL 15 minutes	104 mg/m ³
	OEL 15 minutes	40 ppm
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	OEL 8 hours	308 mg/m ³
	OEL 8 hours	50 ppm
	OEL 8 hours	270 mg/m ³

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European Union

Commission Directive 2000/39/EC

Substance name (component)	Type	Value
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	OEL 8 hours	44,55 ppm

Notes

Skin.

European Union

Commission Directive 2006/15/EC

Substance name (component)	Type	Value
nitric acid ...% (CAS: 7697-37-2)	OEL 15 minutes	2,6 mg/m ³
	OEL 15 minutes	1 ppm
2-(2-butoxyethoxy)ethanol (CAS: 112-34-5)	OEL 8 hours	67,5 mg/m ³
	OEL 8 hours	10 ppm
	OEL 15 minutes	101,2 mg/m ³
	OEL 15 minutes	15 ppm

DNEL

(2-methoxymethylethoxy)propanol				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Dermal	283 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Workers	Inhalation	308 mg/m ³	Chronic effects systemic	BL dodavatele
Consumers	Dermal	121 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Inhalation	37.2 mg/m ³	Chronic effects systemic	BL dodavatele
Consumers	Oral	36 mg/kg bw/day	Chronic effects systemic	BL dodavatele

2-(2-butoxyethoxy)ethanol				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	67.5 mg/m ³	Chronic effects systemic	BL dodavatele
Workers	Inhalation	67.5 mg/m ³	Chronic effects local	BL dodavatele
Workers	Inhalation	101.2 mg/m ³	Acute effects local	BL dodavatele
Workers	Dermal	83 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Inhalation	40.5 mg/m ³	Chronic effects systemic	BL dodavatele
Consumers	Inhalation	40.5 mg/m ³	Chronic effects local	BL dodavatele
Consumers	Inhalation	60.7 mg/m ³	Acute effects local	BL dodavatele
Consumers	Dermal	50 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Oral	6.25 mg/kg bw/day	Chronic effects systemic	BL dodavatele

2-butoxyethanol				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	98 mg/m ³	Chronic effects systemic	BL dodavatele
Workers	Inhalation	246 mg/m ³	Acute effects local	BL dodavatele
Workers	Inhalation	1091 mg/m ³	Acute effects systemic	BL dodavatele
Consumers (0)	Inhalation	59 mg/m ³	Chronic effects systemic	BL dodavatele
Consumers (0)	Inhalation	426 mg/m ³	Acute effects systemic	BL dodavatele
Consumers (0)	Inhalation	147 mg/m ³	Acute effects local	BL dodavatele
Consumers (0)	Oral	6.3 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers (0)	Oral	26.7 mg/kg bw/day	Acute effects systemic	BL dodavatele

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2-ethylhexan-1-ol

Workers / consumers	Route of exposure	Value	Effect	Source
Consumers	Oral	1.1 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Workers	Dermal	23 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Dermal	11.4 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Workers	Inhalation	106.4 mg/m ³	Acute effects local	BL dodavatele
Consumers	Inhalation	53.2 mg/m ³	Acute effects local	BL dodavatele
Workers	Inhalation	53.2 mg/m ³	Chronic effects systemic	BL dodavatele
Consumers	Inhalation	2.3 mg/m ³	Chronic effects systemic	BL dodavatele

3-[(4-chloro-2-nitrophenyl)azo]-2-methylpyrazolo[5,1-b]quinazolin-9(1H)-one

Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	10 mg/m ³	Chronic effects local	BL dodavatele
Consumers	Inhalation	10 mg/m ³	Chronic effects local	BL dodavatele

acidum phosphoricum

Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	10.7 mg/m ³	Chronic effects systemic	ECHA
Workers	Inhalation	1 mg/m ³	Chronic effects local	ECHA
Workers	Inhalation	2 mg/m ³	Acute effects local	ECHA
Consumers	Inhalation	4.57 mg/m ³	Chronic effects systemic	ECHA
Consumers	Inhalation	360 µg/m ³	Chronic effects local	ECHA
Consumers	Oral	100 µg/kg bw/24h	Chronic effects systemic	ECHA

aluminium powder (stabilised)

Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	3.72 mg/m ³	Chronic effects systemic	echa
Consumers	Oral	3.95 mg/kg bw/day	Chronic effects systemic	echa

C.I. PIGMENT Red 254

Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	1.25 mg/m ³	Chronic effects local	BL dodavatele
Consumers	Inhalation	10 mg/m ³	Chronic effects local	BL dodavatele

carbon black

Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	2 mg/m ³	Acute effects local	BL dodavatele

ethanediol

Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	35 mg/m ³	Acute effects local	echa
Workers	Dermal	106 mg/kg bw/day	Chronic effects systemic	echa
Consumers	Inhalation	7 mg/m ³	Acute effects local	echa
Consumers	Dermal	53 mg/kg bw/day	Chronic effects systemic	echa

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formaldehyde ...%

Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	9 mg/m ³	Chronic effects systemic	echa
Workers	Dermal	240 mg/kg bw/day	Chronic effects systemic	echa
Consumers	Inhalation	3.2 mg/m ³	Chronic effects systemic	echa
Consumers	Dermal	102 mg/kg bw/day	Chronic effects systemic	echa
Consumers	Oral	4.1 mg/kg bw/day	Chronic effects systemic	echa

Iron hydroxide oxide yellow

Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	10 mg/m ³	Acute effects systemic	BL dodavatele
Workers	Inhalation	10 mg/m ³	Acute effects local	BL dodavatele

nitric acid ...%

Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	2.6 mg/m ³	Acute effects local	BL dodavatele
Workers	Inhalation	1.3 mg/m ³	Chronic effects local	BL dodavatele
Consumers	Inhalation	1.3 mg/m ³	Acute effects local	BL dodavatele
Consumers	Inhalation	0.65 mg/m ³	Chronic effects local	BL dodavatele

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	0.02 mg/m ³	Chronic effects local	BL dodavatele
Workers	Inhalation	0.04 mg/m ³	Acute effects local	BL dodavatele
Consumers	Inhalation	0.04 mg/m ³	Acute effects local	BL dodavatele
Consumers	Inhalation	0.02 mg/m ³	Chronic effects local	BL dodavatele
Consumers	Oral	0.09 mg/kg	Chronic effects systemic	BL dodavatele
Consumers	Oral	0.11 mg/kg	Acute effects systemic	BL dodavatele

sodium nitrite

Workers / consumers	Route of exposure	Value	Effect	Source
Workers (0)	Inhalation	2 mg/m ³	Chronic effects systemic	BL dodavatele
Workers (0)	Inhalation	2 mg/m ³	Acute effects systemic	BL dodavatele

titanium dioxide

Workers / consumers	Route of exposure	Value	Effect	Source
	Inhalation	10 mg/m ³	Chronic effects local	BL dodavatele

zinc oxide

Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	5 mg/m ³	Chronic effects systemic	BL dodavatele
Workers	Dermal	83 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Inhalation	2.5 mg/m ³	Chronic effects systemic	BL dodavatele
Consumers	Dermal	83 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Oral	830 µg/kg	Chronic effects systemic	BL dodavatele
Workers	Inhalation	0.5 mg/m ³	Chronic effects local	BL dodavatele

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(2-methoxymethylethoxy)propanol		
Route of exposure	Value	Source
Freshwater environment	19 mg/l	BL dodavatele
Marine water	1.9 mg/l	BL dodavatele
Water (intermittent release)	190 mg/l	BL dodavatele
Microorganisms in sewage treatment	4168 mg/l	BL dodavatele
Freshwater sediment	70.2 mg/kg of dry substance	BL dodavatele
Sea sediments	7.02 mg/kg of dry substance	BL dodavatele
Soil (agricultural)	2.74 mg/kg of dry substance	BL dodavatele

2-(2-butoxyethoxy)ethanol		
Route of exposure	Value	Source
Freshwater environment	1.1 mg/l	BL dodavatele
Marine water	0.11 mg/l	BL dodavatele
Microorganisms in sewage treatment	200 mg/l	BL dodavatele
Freshwater sediment	4.4 mg/kg	BL dodavatele
Sea sediments	0.44 mg/kg	BL dodavatele
Soil (agricultural)	0.32 mg/kg	BL dodavatele
Food chain	56 mg/kg	BL dodavatele

2-butoxyethanol		
Route of exposure	Value	Source
Freshwater environment	8.8 mg/l	BL dodavatele
Marine water	0.88 mg/l	BL dodavatele
Water (intermittent release)	26.4 mg/l	BL dodavatele
Microorganisms in sewage treatment	463 mg/l	BL dodavatele
Freshwater sediment	34.6 mg/kg of dry substance of sediment	BL dodavatele
Soil (agricultural)	2.33 mg/kg of dry substance of soil	BL dodavatele
Food chain	20 mg/kg of food	BL dodavatele
Sea sediments	3.46 mg/kg	BL dodavatele

2-ethylhexan-1-ol		
Route of exposure	Value	Source
Freshwater environment	0.017 mg/l	BL dodavatele
Marine water	0.0017 mg/l	BL dodavatele
Water (intermittent release)	0.17 mg/l	BL dodavatele
Freshwater sediment	28 mg/kg of dry substance	BL dodavatele
Sea sediments	0.028 mg/kg of dry substance	BL dodavatele
Microorganisms in sewage treatment	10 mg/l	BL dodavatele
Soil (agricultural)	0.047 mg/kg	BL dodavatele

aluminium powder (stabilised)		
Route of exposure	Value	Source
Microorganisms in sewage treatment	20 mg/l	echa

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Route of exposure	Value	Source
Freshwater environment	0.499 mg/l	BL dodavatele
Water (intermittent release)	0.499 mg/l	BL dodavatele
Marine water	0.499 mg/l	BL dodavatele
Microorganisms in sewage treatment	1 mg/l	BL dodavatele
Sea sediments	668 mg/l	BL dodavatele
Freshwater sediment	668 mg/l	BL dodavatele
Soil (agricultural)	1 mg/l	BL dodavatele

carbon black

Route of exposure	Value	Source
Freshwater environment	5 mg/l	BL dodavatele
Marine water	5 mg/l	BL dodavatele

ethanediol

Route of exposure	Value	Source
Freshwater environment	10 mg/l	echa
Marine water	1 mg/l	echa
Water (intermittent release)	10 mg/l	echa
Microorganisms in sewage treatment	199.5 mg/l	echa
Freshwater sediment	37 mg/kg of dry substance of sediment	echa
Sea sediments	3.7 mg/kg of dry substance of sediment	echa
Soil (agricultural)	1.53 mg/kg of dry substance of soil	echa

formaldehyde ...%

Route of exposure	Value	Source
Freshwater environment	440 µg/l	echa
Marine water	440 µg/l	echa
Water (intermittent release)	4.44 mg/l	echa
Microorganisms in sewage treatment	190 µg/l	echa
Freshwater sediment	2.3 mg/kg of dry substance of sediment	echa
Sea sediments	2.3 mg/kg of dry substance of sediment	echa
Soil (agricultural)	200 µg/kg	echa

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Route of exposure	Value	Source
Freshwater environment	0.00339 mg/l	BL dodavatele
Marine water	0.00339 mg/l	BL dodavatele
Microorganisms in sewage treatment	0.23 mg/l	BL dodavatele
Freshwater sediment	0.027 mg/kg	BL dodavatele
Sea sediments	0.027 mg/kg	BL dodavatele
Soil (agricultural)	0.01 mg/kg	BL dodavatele

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sodium nitrite		
Route of exposure	Value	Source
Freshwater environment	0.0054 mg/l	BL dodavatele
Marine water	0.00616 mg/l	BL dodavatele
Water (intermittent release)	0.0054 mg/l	BL dodavatele
Microorganisms in sewage treatment	21 mg/l	BL dodavatele
Freshwater sediment	0.0195 mg/kg of dry substance of sediment	BL dodavatele
Sea sediments	0.0223 mg/kg of dry substance of sediment	BL dodavatele
Soil (agricultural)	0.000733 mg/kg	BL dodavatele

titanium dioxide		
Route of exposure	Value	Source
Freshwater environment	0.127 mg/l	BL dodavatele
Marine water	1 mg/l	BL dodavatele
Water (intermittent release)	0.61 mg/l	BL dodavatele
Freshwater sediment	1000 mg/kg	BL dodavatele
Sea sediments	100 mg/kg	BL dodavatele
Soil (agricultural)	100 mg/kg	BL dodavatele
Microorganisms in sewage treatment	100 mg/l	BL dodavatele
Food chain	1667 mg/kg	BL dodavatele

zinc oxide		
Route of exposure	Value	Source
Freshwater environment	20.6 µg/l	BL dodavatele
Marine water	6.1 µg/l	BL dodavatele
Microorganisms in sewage treatment	100 µg/l	BL dodavatele
Freshwater sediment	117.8 mg/kg of dry substance of sediment	BL dodavatele
Sea sediments	56.5 mg/kg of dry substance of sediment	BL dodavatele
Soil (agricultural)	35.6 mg/kg of dry substance of soil	BL dodavatele

8.2. Exposure controls

Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection



It is not needed.

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Skin protection



Hand protection: Protective gloves resistant to the product (EN 374). Glove material: Nitrile rubber (EN 374). Recommended material thickness: min. 0.4 mm. Penetration time of the glove material $\geq$ 480 minutes (EN 374). No tests have been carried out, the resistance of the gloves must be tested before use. Find out the exact breakthrough time of the material from the glove manufacturer and observe it. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Contaminated skin should be washed thoroughly.

Glove material	Thickness	Breakthrough time	Class
Nitrile (NBR)	$\geq$ 0.7 mm	>480 min	6

Respiratory protection



Halfmask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

More information

Exposure scenario is attached to the Safety Data Sheet.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	colourless, white, black, red, violet, brown, blue, orange, silver, grey, green, gold, yellow, mixture containing generic product identifier "colorant", copper, semi-white, transparent
Odour	weak in solvents
Melting point/freezing point	data not available
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	-83 °C (BL dodavatele)
2-(2-butoxyethoxy)ethanol (CAS: 112-34-5)	-68 °C (BL dodavatele)
2-butoxyethanol (CAS: 111-76-2)	-70.4 °C (BL dodavatele)
acidum phosphoricum (CAS: 7664-38-2)	41.1 °C (ECHA)
aluminium powder (stabilised) (CAS: 7429-90-5)	660 °C (ECHA)
C.I. PIGMENT Red 254 (CAS: 84632-65-5)	>300 °C (BL dodavatele)
carbon black (CAS: 1333-86-4)	3652-3697 °C (BL dodavatele)
diiron trioxide (CAS: 1309-37-1)	>1000 °C (BL dodavatele)
ethanediol (CAS: 107-21-1)	-13 °C (ECHA)
Iron hydroxide oxide yellow (CAS: 51274-00-1)	>1000 °C (BL dodavatele)
sodium nitrite (CAS: 7632-00-0)	280 °C (BL dodavatele)
talc (Mg ₃ H ₂ (SiO ₃) ₄) (CAS: 14807-96-6)	>1300 °C (BL dodavatele)
titanium dioxide (CAS: 13463-67-7)	>1560 °C (BL dodavatele)
zinc oxide (CAS: 1314-13-2)	>1000 °C (BL dodavatele)
Boiling point or initial boiling point and boiling range	100 °C (mixture in water)
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	189.6 °C (BL dodavatele)
2-(2-butoxyethoxy)ethanol (CAS: 112-34-5)	230 °C (BL dodavatele)

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2-butoxyethanol (CAS: 111-76-2)	168-172 °C (BL dodavatele)
2-ethylhexan-1-ol (CAS: 104-76-7)	186 °C (BL dodavatele)
acidum phosphoricum (CAS: 7664-38-2)	296.5 °C (ECHA)
aluminium powder (stabilised) (CAS: 7429-90-5)	2450 °C (ECHA)
ethanediol (CAS: 107-21-1)	197.4 °C (ECHA)
titanium dioxide (CAS: 13463-67-7)	3000 °C (BL dodavatele)
Flammability	The product is non-flammable.
limestone (CAS: 1317-65-3)	non-inflammable (10 mg/l při 20°C, 15 mg/l při 25°C)
Lower and upper explosion limit	
bottom	0.7 % (for 2-(2-butoxyethoxy)ethanol)
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	1.1 % (BL dodavatele)
2-(2-butoxyethoxy)ethanol (CAS: 112-34-5)	0.7 % (BL dodavatele)
2-butoxyethanol (CAS: 111-76-2)	1.1 % (BL dodavatele)
2-ethylhexan-1-ol (CAS: 104-76-7)	1.1 % (BL dodavatele)
upper	14 % (for (2-methoxymethylethoxy)propanol)
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	14 % (BL dodavatele)
2-(2-butoxyethoxy)ethanol (CAS: 112-34-5)	5.3 % (BL dodavatele)
2-butoxyethanol (CAS: 111-76-2)	10.6 % (BL dodavatele)
2-ethylhexan-1-ol (CAS: 104-76-7)	12.7 % (BL dodavatele)
Flash point	data not available
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	75 °C (BL dodavatele)
2-(2-butoxyethoxy)ethanol (CAS: 112-34-5)	114-115 °C (BL dodavatele)
2-butoxyethanol (CAS: 111-76-2)	67 °C (BL dodavatele)
2-ethylhexan-1-ol (CAS: 104-76-7)	75 °C (BL dodavatele)
carbon black (CAS: 1333-86-4)	>600 °C (BL dodavatele)
ethanediol (CAS: 107-21-1)	111 °C (ECHA)
Auto-ignition temperature	data not available
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	207 °C (BL dodavatele)
2-(2-butoxyethoxy)ethanol (CAS: 112-34-5)	230 °C (BL dodavatele)
2-butoxyethanol (CAS: 111-76-2)	230 °C (BL dodavatele)
carbon black (CAS: 1333-86-4)	>140 °C (BL dodavatele)
ethanediol (CAS: 107-21-1)	398 °C (ECHA)
Decomposition temperature	data not available
3-[(4-chloro-2-nitrophenyl)azo]-2-methylpyrazolo[5,1-b]quinazolin-9(1H)-one (CAS: 74336-59-7)	320 °C (BL dodavatele)
Iron hydroxide oxide yellow (CAS: 51274-00-1)	180 °C (BL dodavatele)
limestone (CAS: 1317-65-3)	>600 °C (BL dodavatele)
talc (Mg3H2(SiO3)4) (CAS: 14807-96-6)	>1000 °C (BL dodavatele)
pH	8-11 (undiluted) (estimate)
2-butoxyethanol (CAS: 111-76-2)	7 (undiluted) (BL dodavatele)
3-[(4-chloro-2-nitrophenyl)azo]-2-methylpyrazolo[5,1-b]quinazolin-9(1H)-one (CAS: 74336-59-7)	5-8 (undiluted) (BL dodavatele)
C.I. PIGMENT Red 254 (CAS: 84632-65-5)	6.5-9.5 (5% solution) (BL dodavatele)
carbon black (CAS: 1333-86-4)	6-11 (3% solution) (BL dodavatele)
diiron trioxide (CAS: 1309-37-1)	5-8 (5% solution) (BL dodavatele)
Iron hydroxide oxide yellow (CAS: 51274-00-1)	4.5-7.5 (0.005% solution) (BL dodavatele)
limestone (CAS: 1317-65-3)	8.5-10.5 (10% solution at 20 °C) (BL dodavatele)
sodium nitrite (CAS: 7632-00-0)	8-9 (10% solution at 20 °C) (BL dodavatele)
talc (Mg3H2(SiO3)4) (CAS: 14807-96-6)	9-9.5 (10% solution) (BL dodavatele)
zinc oxide (CAS: 1314-13-2)	6.72-6.75 (undiluted at 20 °C) (BL dodavatele)
Kinematic viscosity	>20.5 mm²/s at 40 °C
	data not available
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	4.55 mm²/s at 20 °C (BL dodavatele)

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Solubility in water	2-(2-butoxyethoxy)ethanol (CAS: 112-34-5)	5.2 mm ² /s at 25 °C (BL dodavatele)
	(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	miscible
	2-(2-butoxyethoxy)ethanol (CAS: 112-34-5)	>1000 g/l (25 °C) (BL dodavatele)
	2-ethylhexan-1-ol (CAS: 104-76-7)	955 g/l při 20°C (BL dodavatele)
	3-[(4-chloro-2-nitrophenyl)azo]-2-methylpyrazolo[5,1-b]quinazolin-9(1H)-one (CAS: 74336-59-7)	0.9 g/l (20 °C) (BL dodavatele)
	acidum phosphoricum (CAS: 7664-38-2)	insoluble (BL dodavatele)
	aluminium powder (stabilised) (CAS: 7429-90-5)	1000 g/l při 20°C (ECHA)
	C.I. PIGMENT Red 254 (CAS: 84632-65-5)	20 µg/l při 20°C (ECHA)
	ethanediol (CAS: 107-21-1)	<0.499 mg/l (BL dodavatele)
	formaldehyde ...% (CAS: 50-00-0)	1000 g/l při 20°C (ECHA)
	Iron hydroxide oxide yellow (CAS: 51274-00-1)	550 g/l při 20°C (ECHA)
	limestone (CAS: 1317-65-3)	insoluble (BL dodavatele)
	sodium nitrite (CAS: 7632-00-0)	almost insoluble (BL dodavatele (10 mg/l při 20°C, 15 mg/l při 25°C))
	titanium dioxide (CAS: 13463-67-7)	818 g/l (BL dodavatele)
	zinc oxide (CAS: 1314-13-2)	soluble (BL dodavatele)
Partition coefficient n-octanol/water (log value)		2.9 mg/l (BL dodavatele)
	2-(2-butoxyethoxy)ethanol (CAS: 112-34-5)	LogPow -1.36 to 6.98 (range of substances contained)
	2-butoxyethanol (CAS: 111-76-2)	1 (BL dodavatele)
	2-ethylhexan-1-ol (CAS: 104-76-7)	0.81 (BL dodavatele)
	C.I. PIGMENT Red 254 (CAS: 84632-65-5)	log Kow 2.9 (BL dodavatele)
	ethanediol (CAS: 107-21-1)	3 (BL dodavatele)
	formaldehyde ...% (CAS: 50-00-0)	-1.36 (ECHA)
Vapour pressure		0.35 (ECHA)
	(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	0.00002 hPa to 0.89 hPa at 20 °C (range of substances contained)
	2-(2-butoxyethoxy)ethanol (CAS: 112-34-5)	0.037 kPa at 20 °C (BL dodavatele)
	2-butoxyethanol (CAS: 111-76-2)	0.029 hPa at 25 °C (BL dodavatele)
	2-ethylhexan-1-ol (CAS: 104-76-7)	0.89 hPa at 20 °C (BL dodavatele)
	acidum phosphoricum (CAS: 7664-38-2)	0.3 hPa at 20 °C (BL dodavatele)
	aluminium powder (stabilised) (CAS: 7429-90-5)	4 Pa at 20 °C (ECHA)
	ethanediol (CAS: 107-21-1)	0.13-1300 Pa at 974 °C (ECHA)
Density and/or relative density		0.123 hPa at 25 °C (ECHA)
Density		1.12-1.4 g/cm ³ at 23 °C (manufacturer's methodology B5/TD1-5 (ČSN EN ISO 2811-2))
	2-(2-butoxyethoxy)ethanol (CAS: 112-34-5)	0.955 g/cm ³ at 20 °C (BL dodavatele)
	2-butoxyethanol (CAS: 111-76-2)	0.9 g/cm ³ at 20 °C (BL dodavatele)
	2-ethylhexan-1-ol (CAS: 104-76-7)	0.832 g/cm ³ at 20 °C (BL dodavatele)
	3-[(4-chloro-2-nitrophenyl)azo]-2-methylpyrazolo[5,1-b]quinazolin-9(1H)-one (CAS: 74336-59-7)	1.77 g/cm ³ at 20 °C (BL dodavatele)
	aluminium powder (stabilised) (CAS: 7429-90-5)	2.7 g/cm ³ at 20 °C (ECHA)
	C.I. PIGMENT Red 254 (CAS: 84632-65-5)	1.58 g/cm ³ at 20 °C (BL dodavatele)
	carbon black (CAS: 1333-86-4)	1.7-1.9 g/cm ³ at 20 °C (BL dodavatele)
	ethanediol (CAS: 107-21-1)	1.11 g/cm ³ at 20 °C (ECHA)
	Iron hydroxide oxide yellow (CAS: 51274-00-1)	4.1 g/cm ³ at 20 °C (BL dodavatele)
	limestone (CAS: 1317-65-3)	2.4-2.9 g/cm ³ (BL dodavatele)
	sodium nitrite (CAS: 7632-00-0)	2.17 g/cm ³ at 20 °C (BL dodavatele)
	talc (Mg ₃ H ₂ (SiO ₃) ₄) (CAS: 14807-96-6)	2.58-2.83 g/cm ³ (BL dodavatele)
	zinc oxide (CAS: 1314-13-2)	5.68 g/cm ³ at 22 °C (BL dodavatele)
Relative vapour density		data not available
Particle characteristics		data not available
Form		liquid, viscous liquid without foreign mechanical impurities

9.2. Other information

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Vapour density	> 1 (air = 1)
Content of organic solvents (VOC)	0.023 kg/kg (calculation)
Total organic carbon (TOC)	0.014 kg/kg (calculation)
Solid content (dry matter)	≥45 % weight (manufacturer's methodology B5/TD1-12B (ČSN EN ISO 3251))
VOC limit value	cat. A (i) WB: 140 g/l
Max. VOC content in the product in its ready to use condition	29 g/l (calculation)

SECTION 10: Stability and reactivity

10.1. Reactivity

The mixture is non-flammable.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

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

Hazardous substances in concentrations exceeding exposure limits may cause acute inhalation poisoning, depending on the concentration and duration of exposure. No toxicological data is available for the mixture.

Acute toxicity

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

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Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	ATE		66021 mg/kg				Calculation of value	
Dermal	ATE		4814215 mg/kg				Calculation of value	
Inhalation (vapor)	ATE		710 mg/l				Calculation of value	

(2-methoxymethylethoxy)propanol								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀	OECD 401	>5000 mg/kg		Rat			BL dodavatele
Dermal	LD ₅₀	OECD 402	9510 mg/kg		Rabbit			BL dodavatele

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(2-methoxymethylethoxy)propanol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Inhalation (vapor)	LC ₅₀		275 ppm	7 hours	Rat			BL dodavatele
Inhalation	LC ₅₀	OECD 403	3.35 mg/l	7 hours	Rat (Rattus norvegicus)			BL dodavatele
Oral	ATE		5001 mg/kg bw					
Inhalation (vapor)	ATE		3.35 mg/l					
Dermal	ATE		9510 mg/kg bw					

2-(2-butoxyethoxy)ethanol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		5660 mg/kg		Rat (Rattus norvegicus)			BL dodavatele
Dermal	LD ₅₀		4120 mg/kg		Rabbit			BL dodavatele

2-butoxyethanol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	ATE		1200 mg/kg bw					
Inhalation (vapor)	ATE		3 mg/l					

2-ethylhexan-1-ol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀	OECD 401	3290 mg/kg		Rat (Rattus norvegicus)	M		BL dodavatele
Inhalation (dust/mist)	LC ₀	OECD 403	0.89 mg/l	4 hours	Rat (Rattus norvegicus)			BL dodavatele
Dermal	LD ₅₀	OECD 402	>3000 mg/kg		Rat (Rattus norvegicus)			BL dodavatele

3-[(4-chloro-2-nitrophenyl)azo]-2-methylpyrazolo[5,1-b]quinazolin-9(1H)-one

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀	OECD 401	>5000 mg/kg		Rat (Rattus norvegicus)			BL dodavatele

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acidum phosphoricum								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LOAEL		155 mg/kg bw/day		Rat			ECHA

aluminium powder (stabilised)								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		15900 mg/kg bw		Rat			echa
Inhalation	LC ₅₀		888 mg/m ³ of air	4 hours	Rat			echa

C.I. PIGMENT Red 254								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		>5000 mg/kg		Rat (Rattus norvegicus)		Experimentally, Calculation of value	BL dodavatele
Inhalation	LC ₅₀	OECD 403	>2.25 mg/l	4 hours	Rat (Rattus norvegicus)		Experimentally, Calculation of value	BL dodavatele
Dermal	LD ₅₀	OECD 402	>2000 mg/kg		Rat (Rattus norvegicus)		Experimentally, Calculation of value	BL dodavatele

carbon black								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀	OECD 401	>8000 mg/kg		Rat			BL dodavatele
Inhalation	LC ₀		4.6 mg/m ³	4 hours	Rat			BL dodavatele
Inhalation	NOAEL		1.1 mg/m ³	13 weeks	Rat			BL dodavatele

diiron trioxide								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		>5000 mg/kg		Rat			BL dodavatele

ethanediol								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Dermal	LD ₅₀		10670 mg/kg		Rabbit			BL dodavatele

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ethanediol								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Inhalation (dust/mist)	LC ₅₀		>2.5 mg/l of air	6 hours	Rat (Rattus norvegicus)	F/M		BL dodavatele
Oral	LD ₅₀	OECD 401	7712 mg/kg		Rat (Rattus norvegicus)	F/M		BL dodavatele

formaldehyde ...%								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀	OECD 401	460 mg/kg		Rat (Rattus norvegicus)	M		BL dodavatele
Inhalation (gases)	LC ₅₀	OECD 403	<463 ppm	4 hours	Rat (Rattus norvegicus)	F/M		BL dodavatele
Inhalation (gases)	ATE		100 ppm					
Oral	ATE		500 mg/kg bw					

Iron hydroxide oxide yellow								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		>10000 mg/kg		Rat			BL dodavatele
Inhalation (dust/mist)	LD ₅₀		>195 mg/m ³	2 weeks	Rat			BL dodavatele

limestone								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀	OECD 425	6450 mg/kg bw		Rat (Rattus norvegicus)			BL dodavatele

nitric acid ...%								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Inhalation (vapor)	LC ₅₀		1562.5 mg/m ³		Rat (Rattus norvegicus)			BL dodavatele
Inhalation (gases)	LC ₅₀		1562.5 mg/m ³		Rat (Rattus norvegicus)			BL dodavatele
Inhalation (vapor)	ATE		2.65 mg/l					

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reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Inhalation (dust/mist)	LC ₅₀		0.31 mg/l	4 hours				BL dodavatele
Inhalation (dust/mist)	ATE		0.31 mg/l					

sodium nitrite

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		180 mg/kg		Rat (Rattus norvegicus)			BL dodavatele
Inhalation (aerosols)	LC ₅₀		5.5 mg/m ³		Rat (Rattus norvegicus)			BL dodavatele
Oral	LDLo		71 mg/kg		Human			BL dodavatele
Oral	TDLo		1.7 mg/kg		Human			BL dodavatele
Oral	ATE		180 mg/kg bw					

titanium dioxide

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		>5000 mg/kg					BL dodavatele
Inhalation	LC ₅₀		>6.82 mg/l of air					BL dodavatele

zinc oxide

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		>5000 mg/kg		Rat (Rattus norvegicus)			BL dodavatele
Inhalation (aerosols)	LC ₅₀		>5.7 mg/l	4 hours	Rat (Rattus norvegicus)			BL dodavatele
Dermal	LD ₅₀		>2000 mg/kg bw		Rat (Rattus norvegicus)			BL dodavatele

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Skin corrosion/irritation

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

2-(2-butoxyethoxy)ethanol

Route of exposure	Result	Method	Exposure time	Species	Source
Dermal	Slightly irritating			Rabbit	BL dodavatele

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Route of exposure	Result	Method	Exposure time	Species	Source
	Not irritating				BL dodavatele

ethanediol

Route of exposure	Result	Method	Exposure time	Species	Source
Dermal	Not irritating			Rabbit	BL dodavatele

formaldehyde ...%

Route of exposure	Result	Method	Exposure time	Species	Source
	Corrosive	OECD 404		Rabbit	BL dodavatele

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Route of exposure	Result	Method	Exposure time	Species	Source
	Corrosive				BL dodavatele

sodium nitrite

Route of exposure	Result	Method	Exposure time	Species	Source
Dermal	Not irritating			Rabbit	BL dodavatele

talc (Mg3H2(SiO3)4)

Route of exposure	Result	Method	Exposure time	Species	Source
			3 days	Human	výrobce

Irritation

2-ethylhexan-1-ol

Route of exposure	Result	Method	Exposure time	Species	Source
Dermal	Irritating	OECD 404		Rabbit	BL dodavatele
Eye	Irritating	OECD 405		Rabbit	BL dodavatele

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Route of exposure	Result	Method	Exposure time	Species	Source
	Not irritating				BL dodavatele

Serious eye damage/irritation

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

C.I. PIGMENT Red 254

Route of exposure	Result	Exposure time	Species	Source
	Not irritating			BL dodavatele

ethanediol

Route of exposure	Result	Exposure time	Species	Source
	Not irritating		Rabbit	BL dodavatele

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Route of exposure	Result	Exposure time	Species	Source
	Serious eye damage			BL dodavatele

sodium nitrite

Route of exposure	Result	Exposure time	Species	Source
Eye	Irritating		Rabbit	BL dodavatele

Respiratory or skin sensitisation

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

2-(2-butoxyethoxy)ethanol

Route of exposure	Result	Method	Exposure time	Species	Sex	Source
	Not sensitizing			Guinea-pig (Cavia aperea f. porcellus)		BL dodavatele

C.I. PIGMENT Red 254

Route of exposure	Result	Method	Exposure time	Species	Sex	Source
	Not sensitizing			Guinea-pig (Cavia aperea f. porcellus)		BL dodavatele

ethanediol

Route of exposure	Result	Method	Exposure time	Species	Sex	Source
Dermal	Negative	OECD 406		Guinea-pig (Cavia aperea f. porcellus)		BL dodavatele

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formaldehyde ...%

Route of exposure	Result	Method	Exposure time	Species	Sex	Source
Dermal	Sensitizing	OECD 406		Guinea-pig (Cavia aperea f. porcellus)		BL dodavatele

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Route of exposure	Result	Method	Exposure time	Species	Sex	Source
Dermal	Sensitizing	OECD 406		Guinea-pig (Cavia aperea f. porcellus)		BL dodavatele
Dermal	Sensitizing	OECD 429		Mouse		BL dodavatele

Germ cell mutagenicity

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

2-(2-butoxyethoxy)ethanol

Result	Method	Exposure time	Specific target organ	Species	Sex	Source
Negative						BL dodavatele

C.I. PIGMENT Red 254

Result	Method	Exposure time	Specific target organ	Species	Sex	Source
Negative						BL dodavatele

ethanediol

Result	Method	Exposure time	Specific target organ	Species	Sex	Source
Negative	OECD 471			Bacteria (Salmonella typhimurium)		BL dodavatele
Negative	OECD 473			Hamster		BL dodavatele
Negative	OECD 476			Mouse		BL dodavatele
Negative	OECD 478			Rat (Rattus norvegicus)	F/M	BL dodavatele

formaldehyde ...%

Result	Method	Exposure time	Specific target organ	Species	Sex	Source
Positive	OECD 471			Bacteria (Salmonella typhimurium)		BL dodavatele

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formaldehyde ...%						
Result	Method	Exposure time	Specific target organ	Species	Sex	Source
Positive	OECD 471			Chinese hamster (Cricetulus barabensis)		BL dodavatele
Negative				Rat (Rattus norvegicus)	M	BL dodavatele

Carcinogenicity

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

(2-methoxymethylethoxy)propanol								
Route of exposure	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
Inhalation (vapor)		OECD 453	18184.5 mg/m ³	2 years (6 hour/day)	Negative	Rat (Rattus norvegicus)	F/M	BL dodavatele

2-(2-butoxyethoxy)ethanol								
Route of exposure	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
					Negative			BL dodavatele

ethanediol								
Route of exposure	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
Oral	NOAEL		1500 mg/kg bw/day	103 weeks	Negative	Mouse	M	BL dodavatele

formaldehyde ...%								
Route of exposure	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
					Positive			BL dodavatele

Reproductive toxicity

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

(2-methoxymethylethoxy)propanol									
Effect	Parameter	Method	Value	Exposure time	Specific target organ	Result	Species	Sex	Source
Effects on fertility	NOAEL	OECD 416	300 ppm				Rat (Rattus norvegicus)	F/M	BL dodavatele
Effects on fertility	NOEC	OECD 416	6061.35 mg/m ³				Rat (Rattus norvegicus)	F/M	BL dodavatele

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(2-methoxymethylethoxy)propanol									
Effect	Parameter	Method	Value	Exposure time	Specific target organ	Result	Species	Sex	Source
Developmental toxicity	NOEC		1818.4 mg/m ³	10 days (6 hour/day)			Rabbit		BL dodavatele

2-(2-butoxyethoxy)ethanol									
Effect	Parameter	Method	Value	Exposure time	Specific target organ	Result	Species	Sex	Source
Effects on fertility						Negative			BL dodavatele

acidum phosphoricum									
Effect	Parameter	Method	Value	Exposure time	Specific target organ	Result	Species	Sex	Source
Developmental toxicity	NOAEL		370 mg/kg bw/day		Gastrointestinal tract		Mouse		ECHA

C.I. PIGMENT Red 254									
Effect	Parameter	Method	Value	Exposure time	Specific target organ	Result	Species	Sex	Source
						Negative			BL dodavatele

ethanediol									
Effect	Parameter	Method	Value	Exposure time	Specific target organ	Result	Species	Sex	Source
Effects on fertility	NOAEL		≥1000 mg/kg bw/day			Negative	Rat (Rattus norvegicus)	F/M	BL dodavatele

nitric acid ...%									
Effect	Parameter	Method	Value	Exposure time	Specific target organ	Result	Species	Sex	Source
	NOAEL		1500 mg/kg bw/day						BL dodavatele

Toxicity for specific target organ - single exposure

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

C.I. PIGMENT Red 254							
Route of exposure	Parameter	Value	Result	Species	Sex	Source	
			Negative			BL dodavatele	

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Toxicity for specific target organ - repeated exposure

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

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Route of exposure	Parameter	Value	Exposure time	Specific target organ	Result	Species	Sex	Source
					Negative			BL dodavate le

ethanediol

Route of exposure	Parameter	Value	Exposure time	Specific target organ	Result	Species	Sex	Source
Oral				Kidneys	Positive			BL dodavate le

sodium nitrite

Route of exposure	Parameter	Value	Exposure time	Specific target organ	Result	Species	Sex	Source
	LOAEL	115 mg/kg bw/day	14 days			Rat (Rattus norvegicus)	M	BL dodavate le
	LOAEL	225 mg/kg bw/day	14 days			Rat (Rattus norvegicus)	F	BL dodavate le
	NOAEL	130 mg/kg bw/day	2 years			Rat (Rattus norvegicus)	M	BL dodavate le
	NOAEL	150 mg/kg bw/day	2 years			Rat (Rattus norvegicus)	F	BL dodavate le
	LOAEL	750 mg/kg bw/day	14 days			Mouse	M	BL dodavate le
	LOAEL	445 mg/kg bw/day	14 days			Mouse	F	BL dodavate le
	NOAEL	220 mg/kg bw/day	2 years			Mouse	M	BL dodavate le
	NOAEL	165 mg/kg bw/day	2 years			Mouse	F	BL dodavate le

Repeated dose toxicity

(2-methoxymethylethoxy)propanol

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL			1000 mg/kg	4 weeks (7 days/week)	Rat (Rattus norvegicus)	F/M	BL dodavate le
Inhalation (vapor)	NOAEL		OECD 413	1232 mg/m ³	13 weeks (6 hour/day, 5 days/week)	Rat (Rattus norvegicus)	F/M	BL dodavate le

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(2-methoxymethylethoxy)propanol

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Dermal	NOAEL		OECD 411	2850 mg/kg	90 days (5 days/week)	Rabbit	M	BL dodavatel e

2-ethylhexan-1-ol

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL			200 mg/kg	24 months	Mouse		BL dodavatel e
Inhalation	NOAEL			0.6384 mg/l	90 days	Rat (Rattus norvegicus)		BL dodavatel e

aluminium powder (stabilised)

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL			200-3225 mg/kg bw/day		Rat		echa
Inhalation	LOAEL			50 mg/m ³ of air		Rat		echa

ethanediol

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL		OECD 408	150 mg/kg	112 days (7 days/week)	Rat (Rattus norvegicus)	M	BL dodavatel e
Oral	LOAEL		OECD 408	500 mg/kg	112 days (7 days/week)	Rat (Rattus norvegicus)	M	BL dodavatel e

formaldehyde ...%

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	LOAEL		OECD 453	82 mg/kg	2 years	Rat (Rattus norvegicus)	M	BL dodavatel e

sodium nitrite

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL			130-150 mg/kg bw/day		Rat		echa

zinc oxide

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL			31.52 mg/kg bw/day		Rat (Rattus norvegicus)		echa
Inhalation	NOAEL			1.5 mg/m ³ of air		Rat (Rattus norvegicus)		echa
Dermal	LOAEL			75 mg/kg bw/day		Rat (Rattus norvegicus)		echa

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Aspiration hazard

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

11.2. Information on other hazards

Endocrine disrupting properties

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption for humans.

Other information

not available

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.

Acute toxicity

(2-methoxymethylethoxy)propanol						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀	OECD 203	>1000 mg/l	96 hours	Fish (Oncorhynchus mykiss)		BL dodavatele
LC ₅₀	OECD 202	1919 mg/l	48 hours	Daphnia (Daphnia magna)		BL dodavatele
ErC ₅₀	OECD 201	>969 mg/l	96 hours	Algae (Pseudokirchneriella subcapitata)		BL dodavatele
EC ₁₀		4168 mg/l	18 hours	Microorganisms (Pseudomonas putida)		BL dodavatele

2-(2-butoxyethoxy)ethanol						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		1300 mg/l	96 hours	Fish (Oncorhynchus mykiss)		BL dodavatele
EC ₅₀		>100 mg/l	48 hours	Invertebrates		BL dodavatele
EC ₅₀		>100 mg/l	96 hours	Algae (Selenastrum capricornutum)		BL dodavatele
EC ₅₀		255 mg/l		Microorganisms (Photobacterium phosphoreum)		BL dodavatele

2-butoxyethanol						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀	OECD 203	1474 mg/l	96 hours	Fish (Oncorhynchus mykiss)	Fresh water	BL dodavatele
EC ₅₀		1000-2650 mg/l	48 hours	Daphnia (Daphnia magna)		BL dodavatele

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2-butoxyethanol						
Parameter	Method	Value	Exposure time	Species	Environment	Source
EC ₅₀		623 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	Fresh water	BL dodavatel e
NOEC	OECD 201	286 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)		BL dodavatel e
EC ₁₀		463 mg/l	48 hours	Bacteria		BL dodavatel e
LC ₅₀		1250 mg/l	96 hours	Fish (Menidia beryllina)	Salt water	BL dodavatel e

2-ethylhexan-1-ol						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		17.1 mg/l	96 hours	Fish (Leuciscus idus)		BL dodavatel e
EC ₅₀		39 mg/l	48 hours	Daphnia (Daphnia magna)		BL dodavatel e
EC ₅₀		11.5 mg/l	72 hours	Algae (Desmodesmus subspicatus)		BL dodavatel e

3-[(4-chloro-2-nitrophenyl)azo]-2-methylpyrazolo[5,1-b]quinazolin-9(1H)-one						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀	OECD 203	>100 mg/l	96 hours	Fish (Branchydanio rerio)		BL dodavatel e
EC ₅₀	OECD 202	>100 mg/l	48 hours	Daphnia (Daphnia magna)		BL dodavatel e
EC ₅₀	OECD 201	>100 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)		BL dodavatel e
NOEC	OECD 209	1000 mg/l	30 minutes	Microorganisms (Aktivovaný kal)		BL dodavatel e

acidum phosphoricum						
Parameter	Method	Value	Exposure time	Species	Environment	Source
EC ₅₀		100 mg/l	72 hours	Algae (Desmodesmus subspicatus)		ECHA
EC ₅₀		1 g/l	3 hours	Microorganisms		ECHA
EC ₅₀		100 mg/l	48 hours	Invertebrates (Daphnia magna)		ECHA
NOEC		100 mg/l	72 hours	Algae (Desmodesmus subspicatus)		ECHA

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acidum phosphoricum						
Parameter	Method	Value	Exposure time	Species	Environment	Source
NOEC		1 g/l	3 hours	Microorganisms (Photobacterium phosphoreum)		ECHA

aluminium powder (stabilised)						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		430-3910 µg/l	16 days	Fish (Oncorhynchus mykiss)		echa
EC ₅₀		1.5-2.56 mg/l	48 hours	Aquatic invertebrates		echa
EC ₅₀		5.4-570 µg/l	96 hours	Algae and other aquatic plants		echa

C.I. PIGMENT Red 254						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀	OECD 203	>100 mg/l	96 hours	Fish (Branchydanio rerio)		BL dodavatel e
EC ₅₀	OECD 202	>100 mg/l	24 hours	Daphnia (Daphnia magna)		BL dodavatel e
EC ₅₀	OECD 201	>100 mg/l	72 hours	Algae (Desmodesmus subspicatus)		BL dodavatel e
EC ₂₀		>100 mg/l	3 hours	Microorganisms	Activated sludge	BL dodavatel e
EC ₀	OECD 208	>1000 mg/kg	15 days	Higher plants (Lolium perenne)		BL dodavatel e

carbon black						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀	OECD 203	>1000 mg/l	96 hours	Fish (Branchydanio rerio)		BL dodavatel e
EC ₅₀	OECD 202	>5600 mg/l	24 hours	Daphnia (Daphnia magna)		BL dodavatel e
EC ₅₀		>10000 mg/l	72 hours	Algae (Scenedesmus subspicatus)		BL dodavatel e
EC ₀		≥800 mg/l	3 hours	Microorganisms	Activated sludge	BL dodavatel e

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diiron trioxide						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		>1000 mg/l	48 hours	Fish (Leuciscus idus)		BL dodavatele

ethanediol						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		72860 mg/l	96 hours	Fish (Pimephales promelas)	Fresh water	BL dodavatele
NOEC	OECD 201	>100 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	Fresh water	BL dodavatele
EC ₅₀	OECD 202	>100 mg/l	48 hours	Daphnia (Daphnia magna)	Fresh water	BL dodavatele
EC ₂₀		>1995 mg/l	30 minutes		Activated sludge	BL dodavatele

formaldehyde ...%						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		6.7 mg/l	96 hours	Fish	Salt water	BL dodavatele
EC ₅₀	OECD 202	5.8 mg/l	48 hours	Daphnia (Daphnia pulex)	Fresh water	BL dodavatele
ErC ₅₀	OECD 201	4.89 mg/l	72 hours	Algae and other aquatic plants (Desmodesmus subspicatus)		BL dodavatele
EC ₅₀	OECD 209	19 mg/l	3 hours	Microorganisms	Activated sludge	BL dodavatele

Iron hydroxide oxide yellow						
Parameter	Method	Value	Exposure time	Species	Environment	Source
EC ₅₀		>10000 mg/l	3 hours	Bacteria (Salmonella typhimurium)	Fresh water	BL dodavatele
EC ₅₀	OECD 202	>100 mg/l	48 hours	Daphnia (Daphnia magna)	Fresh water	BL dodavatele
LC ₀	OECD 203	>1000000 mg/l	96 hours	Fish (Oncorhynchus mykiss)	Fresh water	BL dodavatele

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limestone						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		>10000 mg/l	96 hours	Fish (Oncorhynchus mykiss)		BL dodavateľ
LC ₅₀		>1000 mg/l	48 hours	Daphnia (Daphnia magna)		BL dodavateľ
EC ₅₀		>200 mg/l	72 hours	Algae (Desmodesmus subspicatus)		BL dodavateľ

nitric acid ...%						
Parameter	Method	Value	Exposure time	Species	Environment	Source
NOEC		6.75 mg/kg	72 hours	Fish (Selenastrum capricornutum)		BL dodavateľ

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		0.58 mg/l	96 hours	Fish (Danio rerio (danio pruhované))		BL dodavateľ
EC ₅₀		1.02 mg/l	48 hours	Daphnia (Daphnia magna (perloočka veľká))		BL dodavateľ
EC ₅₀	OECD 201	0.379 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata (zelené řasy))		BL dodavateľ
EC ₁₀	OECD 201	0.188 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata (zelené řasy))		BL dodavateľ

sodium nitrite						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		0.54-26.3 mg/l	96 hours	Fish (Oncorhynchus mykiss)		BL dodavateľ
EC ₅₀	OECD 202	15.4 mg/l	48 hours	Daphnia (Daphnia magna)		BL dodavateľ
EC ₅₀	OECD 201	>100 mg/l	72 hours	Algae (Desmodesmus subspicatus)		BL dodavateľ
EC ₅₀		421 mg/l	48 hours	Bacteria (Protozoa (prvoci))		BL dodavateľ
LC ₅₀		4.93 mg/kg	96 hours	Crustaceans		BL dodavateľ

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sodium nitrite						
Parameter	Method	Value	Exposure time	Species	Environment	Source
EC ₁₀		210 mg/l	3 hours	Microorganisms (Photobacterium phosphoreum)	Activated sludge	BL dodavateľ

talc (Mg ₃ H ₂ (SiO ₃) ₄)						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		>100000 mg/l	24 hours	Fish (Oncorhynchus mykiss)		výrobce
LC ₅₀		94983.781 mg/kg	48 hours	Crustaceans		výrobce
LC ₅₀		48545.539 mg/l		Algae (Selenastrum capricornutum)		výrobce

titanium dioxide						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		>100 mg/l	96 hours	Fish (Oncorhynchus mykiss)	Fresh water	BL dodavateľ
LC ₅₀		>1000 mg/l	96 hours	Fish (Pimephales promelas)	Fresh water	BL dodavateľ
LC ₅₀	OECD 202	>100 mg/l	48 hours	Daphnia (Daphnia magna)	Fresh water	BL dodavateľ

zinc oxide						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		1.793 mg/l	96 hours	Fish (Danio rerio)		BL dodavateľ
EC ₅₀		0.86 mg/l	48 hours	Daphnia (Daphnia magna)		BL dodavateľ
IC ₅₀		136 µg/l	72 hours	Algae (Pseudokirchneriella subcapitata)		BL dodavateľ
NOEC		24 µg/l	72 hours	Algae (Pseudokirchneriella subcapitata)		BL dodavateľ
NOEC		5.6 µg/l	24 days	Crustaceans (Holmesimysis costata)		BL dodavateľ

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Chronic toxicity

(2-methoxymethylethoxy)propanol						
Parameter	Method	Value	Exposure time	Species	Environment	Source
NOEC		>0.5 mg/l	22 days	Daphnia (Daphnia magna)		BL dodavatel e
LOEC		>0.5 mg/l	22 days	Daphnia (Daphnia magna)		BL dodavatel e

2-butoxyethanol						
Parameter	Method	Value	Exposure time	Species	Environment	Source
NOEC	OECD 204	>100 mg/l	21 days	Fish (Danio rerio)		BL dodavatel e
NOEC	OECD 211	100 mg/l	21 days	Daphnia (Daphnia magna)		BL dodavatel e

C.I. PIGMENT Red 254						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀	OECD 202	>1000 mg/kg	14 days	Microorganisms (Eisenia foetida)		BL dodavatel e

ethanediol						
Parameter	Method	Value	Exposure time	Species	Environment	Source
NOEC		15380 mg/l	7 days	Fish (Pimephales promelas)	Fresh water	BL dodavatel e
NOEC		8590 mg/l	7 days	Daphnia (Ceriodaphnia dubia)	Fresh water	BL dodavatel e

formaldehyde ...%						
Parameter	Method	Value	Exposure time	Species	Environment	Source
EC ₅₀	OECD 211	≥6.4 mg/l	21 days	Daphnia (Daphnia magna)	Fresh water	BL dodavatel e

nitric acid ...%						
Parameter	Method	Value	Exposure time	Species	Environment	Source
NOEC		97.8 mg/l				BL dodavatel e

zinc oxide						
Parameter	Method	Value	Exposure time	Species	Environment	Source
NOEC		0.056-0.061 mg/l	116 days	Fish (Salmo trutta)		BL dodavatel e

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12.2. Persistence and degradability

Data for the mixture are not available.

Biodegradability

(2-methoxymethylethoxy)propanol						
Parameter	Method	Value	Exposure time	Environment	Result	Source
	OECD 301F	75 %	28 days		Easily biodegradable	BL dodavatel e

2-(2-butoxyethoxy)ethanol						
Parameter	Method	Value	Exposure time	Environment	Result	Source
	OECD 301C	89-93 %	28 days		Biodegradable	BL dodavatel e
Biodegradace		100 %	28 hours	Activated sludge		BL dodavatel e
BSK ₅		27 %				BL dodavatel e
BSK ₁₀		60 %				BL dodavatel e
BSK ₂₀		81 %				BL dodavatel e

2-butoxyethanol						
Parameter	Method	Value	Exposure time	Environment	Result	Source
		69.3 %	13 days			BL dodavatel e
		79.5 %	16 days			BL dodavatel e
		87.5 %	22 days			BL dodavatel e

2-ethylhexan-1-ol						
Parameter	Method	Value	Exposure time	Environment	Result	Source
	OECD 301C	79-99.9 %	14 days	Activated sludge	Easily biodegradable	BL dodavatel e

ethanediol						
Parameter	Method	Value	Exposure time	Environment	Result	Source
	OECD 301A	90-100 %	10 days	Activated sludge	Easily biodegradable	BL dodavatel e

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formaldehyde ...%						
Parameter	Method	Value	Exposure time	Environment	Result	Source
	OECD 301A	99 %	28 days		Easily biodegradable	BL dodavatele

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)						
Parameter	Method	Value	Exposure time	Environment	Result	Source
					Hardly biodegradable	BL dodavatele

12.3. Bioaccumulative potential

Data for the mixture are not available.

(2-methoxymethylethoxy)propanol					
Parameter	Method	Value	Temperature [°C]	Value determination	Source
Log Pow	OECD 107	0.006	25°C		BL dodavatele

2-(2-butoxyethoxy)ethanol					
Parameter	Method	Value	Temperature [°C]	Value determination	Source
Log Pow		<3			BL dodavatele

2-butoxyethanol					
Parameter	Method	Value	Temperature [°C]	Value determination	Source
Log Pow		0.81			BL dodavatele

ethanediol					
Parameter	Method	Value	Temperature [°C]	Value determination	Source
Log Pow		-1.36			BL dodavatele

formaldehyde ...%					
Parameter	Method	Value	Temperature [°C]	Value determination	Source
BCF		<1			BL dodavatele
Log Pow		0.35		Experimentally	BL dodavatele

12.4. Mobility in soil

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any PMT or vPvM components.

2-(2-butoxyethoxy)ethanol			
Parameter	Value	Result	Source
Log Koc	2	High	BL dodavatele

formaldehyde ...%			
Parameter	Value	Result	Source
Koc	15.9		BL dodavatele

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12.5. Results of PBT and vPvB assessment

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any PBT or vPvB components.

12.6. Endocrine disrupting properties

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption in the environment.

12.7. Other adverse effects

Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

08 01 11* waste paint and varnish containing organic solvents or other hazardous substances

Packaging waste type code

15 01 10* packaging containing residues of or contaminated by hazardous substances

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

SECTION 14: Transport information

14.1. UN number or ID number

not subject to transport regulations

14.2. UN proper shipping name

not relevant

14.3. Transport hazard class(es)

not relevant

14.4. Packing group

not relevant

14.5. Environmental hazards

No.

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Product contains regulated explosives precursor: Making available, introduction, possession and use of those precursors by member of the general public according to Regulation (EU) 2019/1148, Article 5 to 9. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

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Restrictions pursuant to Annex XVII of Regulation (EC) No. 1907/2006 (REACH), as amended

2-(2-butoxyethoxy)ethanol

Restriction	Conditions of restriction
55	1. Shall not be placed on the market for the first time after 27 June 2010, for supply to the general public, as a constituent of spray paints or spray cleaners in aerosol dispensers in concentrations equal to or greater than 3 % by weight. 2. Spray paints and spray cleaners in aerosol dispensers containing DEGBE and not conforming to paragraph 1 shall not be placed on the market for supply to the general public after 27 December 2010. 3. Without prejudice to other Community legislation concerning the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that paints other than spray paints containing DEGBE in concentrations equal to or greater than 3 % by weight of that are placed on the market for supply to the general public are visibly, legibly and indelibly marked by 27 December 2010 as follows: "Do not use in paint spraying equipment".

formaldehyde ...%

Restriction	Conditions of restriction
28	1. Shall not be placed on the market, or used, — as substances, — as constituents of other substances, or, — in mixtures, for supply to the general public when the individual concentration in the substance or mixture is equal to or greater than: — either the relevant specific concentration limit specified in Part 3 of Annex VI to Regulation (EC) No 1272/2008, or, — the relevant generic concentration limit specified in Part 3 of Annex I of Regulation (EC) No 1272/2008. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of such substances and mixtures is marked visibly, legibly and indelibly as follows: "Restricted to professional users". 2. By way of derogation, paragraph 1 shall not apply to: (a) medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/EC; (b) cosmetic products as defined by Directive 76/768/EEC; (c) the following fuels and oil products: — motor fuels which are covered by Directive 98/70/EC, — mineral oil products intended for use as fuel in mobile or fixed combustion plants, — fuels sold in closed systems (e.g. liquid gas bottles); (d) artists' paints covered by Regulation (EC) No 1272/2008; (e) the substances listed in Appendix 11, column 1, for the applications or uses listed in Appendix 11, column 2. Where a date is specified in column 2 of Appendix 11, the derogation shall apply until the said date. (f) devices covered by Regulation (EU) 2017/745.

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formaldehyde ...%

Restriction	Conditions of restriction
72	1. Shall not be placed on the market after 1 November 2020 in any of the following: (a) clothing or related accessories; (b) textiles other than clothing which, under normal or reasonably foreseeable conditions of use, come into contact with human skin to an extent similar to clothing; (c) footwear; if the clothing, related accessory, textile other than clothing or footwear is for use by consumers and the substance is present in a concentration, measured in homogeneous material, equal to or greater than that specified for that substance in Appendix 12. 2. By way of derogation, in relation to the placing on the market of formaldehyde [CAS No 50-00-0] in jackets, coats or upholstery, the relevant concentration for the purposes of paragraph 1 shall be 300 mg/kg during the period between 1 November 2020 and 1 November 2023. The concentration specified in Appendix 12 shall apply thereafter. 3. Paragraph 1 shall not apply to: (a) clothing, related accessories or footwear, or parts of clothing, related accessories or footwear, made exclusively of natural leather, fur or hide; (b) non-textile fasteners and non-textile decorative attachments; (c) second-hand clothing, related accessories, textiles other than clothing or footwear (d) wall-to-wall carpets and textile floor coverings for indoor use, rugs and runners. 4. Paragraph 1 shall not apply to clothing, related accessories, textiles other than clothing, or footwear within the scope of Regulation (EU) 2016/425 of the European Parliament and of the Council (*) or Regulation (EU) 2017/745 of the European Parliament and of the Council (**). 5. Paragraph 1(b) shall not apply to disposable textiles. 'Disposable textiles' means textiles that are designed to be used only once or for a limited time and are not intended for subsequent use for the same or a similar purpose. 6. Paragraphs 1 and 2 shall apply without prejudice to the application of any stricter restrictions set out in this Annex or in other applicable Union legislation. 7. The Commission shall review the exemption in paragraph 3(d) and, if appropriate, modify that point accordingly. (*) Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC (OJ L 81, 31.3.2016, p. 51). (**) Regulation (EU) 2017/745 of the European Parliament and of the Council of 5 April 2017 on medical devices, amending Directive 2001/83/EC, Regulation (EC) No 178/2002 and Regulation (EC) No 1223/2009 and repealing Council Directives 90/385/EEC and 93/42/EEC (OJ L 117, 5.5.2017, p. 1).

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formaldehyde ...%

Restriction	Conditions of restriction
77	1. Shall not be placed on the market in articles, after 6 August 2026, if, under the test conditions specified in Appendix 14, the concentration of formaldehyde released from those articles exceeds: (a) 0,062 mg/m³ for furniture and wood-based articles; (b) 0,080 mg/m³ for articles other than furniture and wood-based articles. The first subparagraph shall not apply to: (a) articles in which formaldehyde or formaldehyde releasing substances are exclusively naturally present in the materials from which the articles are produced; (b) articles that are exclusively for outdoor use under foreseeable conditions; (c) articles in constructions, that are exclusively used outside the building shell and vapour barrier and that do not emit formaldehyde into indoor air; (d) articles exclusively for industrial or professional use unless formaldehyde released from them leads to exposure of the general public under foreseeable conditions of use; (e) articles for which the restriction laid down in entry 72 applies; (f) articles that are biocidal products within the scope of Regulation (EU) No 528/2012 of the European Parliament and of the Council; (g) devices within the scope of Regulation (EU) 2017/745; (h) personal protective equipment within the scope of Regulation (EU) 2016/425; (i) articles intended to come into contact directly or indirectly with food within the scope of Regulation (EC) No 1935/2004; (j) second-hand articles. 2. Shall not be placed on the market in road vehicles after 6 August 2027 if, under the test conditions specified in Appendix 14, the concentration of formaldehyde in the interior of those vehicles exceeds 0,062 mg/m³. The first subparagraph shall not apply to: (a) road vehicles exclusively for industrial or professional use unless the concentration of formaldehyde in the interior of those vehicles leads to exposure of the general public under foreseeable conditions of use; (b) second-hand vehicles.

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out (mixture).

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

EUH071	Corrosive to the respiratory tract.
EUH208	Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.
H228	Flammable solid.
H261	In contact with water releases flammable gases.
H272	May intensify fire; oxidiser.
H301	Toxic if swallowed.
H301+H311	Toxic if swallowed or in contact with skin.
H302	Harmful if swallowed.
H310+H330	Fatal in contact with skin or if inhaled.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

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H341	Suspected of causing genetic defects.
H350	May cause cancer.
H373	May cause damage to the kidneys 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.

Guidelines for safe handling used in the safety data sheet

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P501	Dispose of contents/container to by handing over to a person authorized to dispose of waste or a site designated by the town.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

Acute Tox.	Acute toxicity
ADR	Agreement concerning the international carriage of dangerous goods by road
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
ATE	Acute toxicity estimate
BCF	Bioconcentration Factor
BOD	Biochemical oxygen demand
Carc.	Carcinogenicity
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC ₀	Concentration of a substance when it is affected 0 % of the population
EC ₁₀	Concentration of a substance when it is affected 10 % of the population
EC ₂₀	Concentration of a substance when it is affected 20 % of the population
EC ₅₀	Concentration of a substance when it is affected 50 % of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency Response Procedures for Ships Carrying Dangerous Goods
EU	European Union
EuPCS	European Product Categorisation System
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Flam. Sol.	Flammable solid
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC ₅₀	Concentration causing 50% blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC ₀	Lethal concentration of a substance in which it can be expected death of 0% of the population
LC ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population

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LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population
LOAEL	Lowest observed adverse effect level
log K _{ow}	Octanol-water partition coefficient
Muta.	Germ cell mutagenicity
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
OEL	Occupational Exposure Limits
Ox. Sol.	Oxidising solid
PBT	Persistent, bioaccumulative and toxic
PMT	Persistent, mobile and toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulation concerning the International Carriage of Dangerous Goods by Rail
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure
UN number	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very persistent and very bioaccumulative
vPvM	Very persistent and very mobile
Water-react.	Substance or mixture which in contact with water emits flammable gas

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.
REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

The version 5.0 replaces the SDS version from Tuesday, 12 August 2025. Changes were made in sections 2, 9, 11, 15 and 16.

More information

Classification procedure - calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.

Příloha bezpečnostního listu pro výrobek: Vodou ředitelná nátěrová hmota

1. Expoziční scénář: Průmyslové použití

Sektor použití : SU3
Kategorie chemických výrobků : PC9a
Dílčí procesy kryté expozičním scénářem : PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC10, PROC13, PROC 15
Uvolňování výrobku do životního prostředí : ERC4

Základní podmínky omezující riziko pro pracovníky:

Trvání pracovních činností : expozice trvající nejvýše 8 hodin / den
Koncentrace : práce s nátěrovou hmotou, popř. naředěnou na aplikační hustotu
Teplota : provádění prací při doporučené teplotě 19 až 25°C a vzdušné vlhkosti do 70%
Obecná opatření na omezení rizik : pracovat v ochranném pracovním oděvu, při kontaktu s nátěrovou hmotou používat ochranné rukavice a ochranné brýle, limitní koncentrace látek obsažených ve směsi jsou uvedeny v oddíle 8 bezpečnostního listu a mohou se lišit v závislosti na typu nátěrové hmoty
Při práci dodržovat obecné zásady hygieny a bezpečnosti práce.
Prostředí, kde jsou činnosti prováděny : vnitřní prostředí s odvětráváním.

Doplňující požadavky omezující riziko pro pracovníky vykonávající dílčí pracovní činnosti:

Dílčí pracovní činnost prováděná s výrobkem	Kategorie procesu	Požadované doplňující opatření
Přečerpávání nátěrových hmot z / do zásobníků a zařízení v uzavřeném systému	PROC1 Použití v rámci uzavřeného výrobního procesu	Nevyžadováno
Přečerpávání nátěrových hmot z / do zásobníků a zařízení v nesespecializovaném zařízení s možností expozice osob a životního prostředí	PROC8a přeprava výrobku (napouštění / vypouštění) z / do nádob / kontejnerů v nesespecializovaných zařízeních	Místní odsávání, popř. dobré větrání (3 - 5 výměn vzduchu za hodinu).
Přečerpávání nátěrových hmot z / do zásobníků a zařízení v nesespecializovaném zařízení s možností expozice osob a životního prostředí	PROC8b PROC8a přeprava výrobku (napouštění / vypouštění) z / do nádob / kontejnerů v specializovaných zařízeních	Místní odsávání, popř. dobré větrání (3 - 5 výměn vzduchu za hodinu).
Míchání, směšování, ředění nátěrových hmot v otevřených zařízeních s možností expozice osob a životního prostředí	PROC5 míchání nebo směšování v dávkových procesech při výrobě směsí	Místní odsávání, popř. dobré větrání (3 - 5 výměn vzduchu za hodinu).
Aplikace stříkáním	PROC7 průmyslové nástřikové techniky	Robotický nástřik provádět v uzavřených komorách nebo uzavřených kabinách s odsáváním a zajištěním nezávislého přívodu vzduchu. Ruční nástřik provádějte ve stříkacích kabinách nebo v intenzívně větraných prostorách (5-10 výměn vzduchu za hodinu) za použití polomasky nebo masky s filtrem typu A/P2.
Ruční aplikace nátěrových hmot válečkem, štětkou, stěrkou	PROC10 aplikace válečkem, stěrkou nebo štětkou	Místní odsávání, popř. dobré větrání (3 - 5 výměn vzduchu za hodinu).
Nanášení nátěrových hmot poléváním nebo ponořením	PROC13 úprava předmětů máčením a poléváním	Místní odsávání, popř. dobré větrání (3 - 5 výměn vzduchu za hodinu).
Volné sušení nátěrového filmu při normální teplotě nebo mírně zvýšené teplotě	PROC4 použití v rámci dávkového a jiného procesu s větší možností expozice	Provádět za místního odsávání, popř. dobré větrání (3 - 5 výměn vzduchu za hodinu).
Kontinuální postupy sušení a vytvrzování nátěrových hmot za zvýšené teploty v sušících tunelech s odsáváním par	PROC2 použití v rámci nepřetržitého chemického výrobního procesu s příležitostnou kontrolovanou	Nevyžaduje další opatření na omezení rizik.

Dílčí pracovní činnost prováděná s výrobkem	Kategorie procesu	Požadované doplňující opatření
	expozici (např. odběr vzorků)	
Násadové postupy sušení a vytvrzování filmu nátěrových hmot za zvýšené teploty v odsávaných komorách.	PROC3 použití v rámci uzavřeného dávkového procesu výroby směsí	Nevyžaduje další opatření na omezení rizik.
Strojní čištění a promývání uzavřených nádrží, zásobníků a zařízení vybavených odsáváním par	PROC3 použití v rámci uzavřeného dávkového procesu výroby směsí	Nevyžaduje další opatření na omezení rizik.
Ruční čištění malých zásobníků, aplikačních zařízení a nářadí	PROC10 aplikace válečkem, stěrkou nebo štětcem	Lokální odsávání v místě potencionálního úniku emisí nebo dobré větrání (3 – 5 výměn vzduch za hodinu).
Kontrolní činnosti prováděné s nátěrovými hmotami v laboratořích	PROC15 použití jako laboratorního reagentu (práce s výrobkem v laboratořích)	Dobré větrání (3 – 5 výměn vzduch za hodinu).
Činnosti s odpady výrobku a odpady znečištěnými výrobkem		Při nebezpečí styku s odpady používat rukavice. Odpady ukládat do uzavíratelných obalů uložených v době větraných skladech nebo ve venkovním prostředí. Odpady zajistit proti úniku do vody a půdy.

Doplňující požadavky omezující riziko pro životní prostředí

Omezování emisí do ovzduší	Při nanášení barvy stříkáním odstraňovat ze vzduchu odtahovaného z pracovních prostor úlet aerosolu barvy. Při překročení limitů spotřeby rozpouštědel stanovených vyhláškou využívat postupy zaručujícími dodržení emisních parametrů stanovených předpisy pro ochranu ovzduší.
Omezování emisí do vody	Barvu a odpady znečištěné barvou skladovat v objektech stavebně zajištěných proti úniku úkapů a havarijních úniků do podzemních a povrchových vod. Při vypouštění odpadních vod dodržovat parametry stanovené pro dané zařízení vodohospodářským orgánem.
Odstraňování odpadů	Odpady barvy a materiálů znečištěných barvou odstraňovat ve spolupráci s osobami oprávněnými k nakládání s odpady.

2. Expoziční scénář: profesionální použití

Sektor použití : SU22
Kategorie chemických výrobků : PC9a
Dílčí procesy kryté expozičním scénářem : PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC 15, PROC19
Uvolňování výrobku do životního prostředí : ERC8a, ERC8d

Základní podmínky omezující riziko pro pracovníky:

Trvání pracovních činností : expozice trvající nejvýše 8 hodin / den
Koncentrace : práce s nátěrovou hmotou, popř. naředěnou na aplikační hustotu
Teplota : provádění prací při doporučené teplotě 19 až 25°C a vzdušné vlhkosti do 70%
Obecná opatření na omezení rizik : pracovat v ochranném pracovním oděvu, při kontaktu s nátěrovou hmotou používat ochranné rukavice a ochranné brýle, limitní koncentrace látek obsažených ve směsi jsou uvedeny v oddíle 8 bezpečnostního listu a mohou se lišit v závislosti na typu nátěrové hmoty
Při práci dodržovat obecné zásady hygieny a bezpečnosti práce.
Prostředí, kde jsou činnosti prováděny : vnitřní prostředí s odvětráváním, popř. venkovní prostředí.

Doplňující požadavky omezující riziko pro pracovníky vykonávající dílčí pracovní činnosti:

Dílčí pracovní činnost prováděná s výrobkem	Kategorie procesu	Požadované doplňující opatření
Přečerpávání nátěrových hmot z / do zásobníků a zařízení v nespécializovaném zařízení s možností expozice osob a životního prostředí	PROC8a přeprava výrobku (napouštění / vypouštění) z / do nádob / kontejnerů v nespécializovaných zařízeních	Uvnitř budov: Místní odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu). Venku: zajistit úkapy nátěrových hmot.
Míchání, směšování, ředění nátěrových hmot v otevřených zařízeních s možností expozice osob a	PROC5 míchání nebo směšování	Uvnitř: Místní odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu).

Dílčí pracovní činnost prováděná s výrobkem	Kategorie procesu	Požadované doplňující opatření
životního prostředí	v dávkových procesech při výrobě směsí	Venku: činnosti vykonávat nejdéle 4 hod./den bez potřeby dalších opatření, nebo používat ochranu dýchacích orgánů s filtrem typu A/P2.
Aplikace stříkáním	PROC11 neprůmyslové nástřikové techniky	Uvnitř: nástřik provádět v uzavřených komorách nebo uzavřených kabinách s odsáváním a zajištěním nezávislého přívodu vzduchu. Místní odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu). Ruční nástřik provádějte ve stříkacích kabinách nebo v intenzivně větraných prostorách (5-10 výměn vzduchu za hodinu) za použití polomasky nebo masky s filtrem typu A/P2. Venku: Nevyžaduje další opatření na omezení rizik.
Ruční aplikace nátěrových hmot válečkem, štětcem, stěrkou	PROC10 aplikace válečkem, stěrkou nebo štětcem	Uvnitř: Místní odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu). Venku: nevyžaduje se další opatření
Nanášení nátěrových hmot poléváním nebo ponořením	PROC13 úprava předmětů máčením a poléváním	Uvnitř: Místní odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu). Venku: Nevyžaduje se další opatření.
Násadové postupy sušení a vytvrzování filmu nátěrových hmot za zvýšené teploty v odsávaných komorách.	PROC3 použití v rámci uzavřeného dávkového procesu výroby směsí	Nevyžaduje další opatření na omezení rizik.
Volné sušení nátěrového filmu při normální teplotě nebo mírně zvýšené teplotě	PROC4 použití v rámci dávkového a jiného procesu s větší možností expozice	Uvnitř: Provádět za místního odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu). Venku: nevyžaduje se další opatření
Ruční čištění malých zásobníků, aplikačních zařízení a nářadí	PROC10 aplikace válečkem, stěrkou nebo štětcem	Uvnitř: Lokální odsávání v místě potencionálního úniku emisí nebo dobré větrání (3 – 5 výměn vzduchu za hodinu). Venku: nevyžaduje se další opatření
Činnosti, při kterých dochází k přímému kontaktu s výrobkem bez použití pracovního nástroje	PROC19 ruční mísení s úzkým kontaktem za použití OOPP	Uvnitř: rukavice, místní odsávání nebo dobré větrání Venku: rukavice
Kontrolní činnosti prováděné s nátěrovými hmotami v laboratořích	PROC15 použití jako laboratorního reagentu (práce s výrobkem v laboratořích)	Dobré větrání (3 – 5 výměn vzduchu za hodinu).
Činnosti s odpady výrobku a odpady znečištěnými výrobkem		Při nebezpečí styku s odpady používat rukavice. Odpady ukládat do uzavíratelných obalů uložených v dobře větraných skladech nebo ve venkovním prostředí. Odpady zajistit proti úniku do vody a půdy. Uvnitř: dobré větrání (3 – 5 výměn vzduchu za hodinu).

Doplňující požadavky omezující riziko pro životní prostředí

Omezování emisí do ovzduší	Nejsou požadována žádná zvláštní opatření
Omezování emisí do vody	Barvu a odpady znečištěné barvou skladovat v objektech stavebně zajištěných proti úniku úkapů a havarijních úniků do podzemních a povrchových vod. Při vypouštění odpadních vod dodržovat parametry stanovené pro dané zařízení vodo hospodářským orgánem.
Odstraňování odpadů	Odpady barvy a materiálů znečištěných barvou odstraňovat ve spolupráci s osobami oprávněnými k nakládání s odpady.