

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



S2015 Synthetic single-layer anti-corrosion paint PROTIREZ

Creation date	08th June 2017	Version	7.0
Revision date	03rd February 2025		

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

1.1. Product identifier

Substance / mixture	S2015 Synthetic single-layer anti-corrosion paint PROTIREZ
Number	mixture
UFI	S2015-: A-R....; B-V00..; L-R...; T-R....; Z1R....
Other mixture names	8DHJ-5MVK-M00U-R7CK
	S2015 Syntetická jednovrstvá barva antikoroční PROTIREZ

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

Mixture's intended use

PROTIREZ S2015 paint is used as a single layer coating on steel surfaces, e.g. for structures, bridges, tanks, pipelines, fencing and other similar applications in the exterior. The paint simultaneously fulfills the function of anti-corrosion base paint and top paint.

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 Reg No	CZ49444964
Phone	+420 572527111
E-mail	colorlak@colorlak.cz
Web address	www.colorlak.cz

Competent person responsible for the safety data sheet

Name	Ing. Gabriela Kubíková
E-mail	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.

Flam. Liq. 3, H226
Skin Irrit. 2, H315
Eye Irrit. 2, H319
STOT SE 3, H335
STOT RE 2, H373 (central nervous system, respiratory tract (inhalation))
Aquatic Chronic 2, H411

Most serious adverse physico-chemical effects

Flammable liquid and vapour.

Most serious adverse effects on human health and the environment

Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause damage to the central nervous system, the respiratory tract (inhalation) through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.

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2.2. Label elements

Hazard pictogram



Signal word

Warning

Hazardous substances

Technical xylene (mixed with ethylbenzene)
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Hazard statements

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H373	May cause damage to the central nervous system, the respiratory tract (inhalation) through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

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.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe vapors/aerosols.
P264	Wash hands/ stained body parts/ water and soap thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P314	Get medical advice/attention if you feel unwell.
P370+P378	In case of fire: Use foam (alcohol resistant), carbon dioxide, a spray mist, powder to extinguish.
P391	Collect spillage.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to by handing it over to a person authorized to dispose of waste or to a place designated by the municipality.

Supplemental information

EUH066	Repeated exposure may cause skin dryness or cracking.
Density	1.12-1.52 g/cm ³ at 20 °C (ČSN EN ISO 2811-2)
VOC	0,405 kg/kg
TOC	0,376 kg/kg
Dry matter	≥55 % weight
VOC limit value	cat. A (i) SB: 500 g/l
Max. VOC content in the product in its ready to use condition	481 g/l

Requirements for child-resistant fastenings and tactile warning of danger

Container must carry a tactile warning of danger.

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% of particles with an aerodynamic diameter ≤ 10 µm, and therefore the criteria for classification and supplementary warnings are not met.

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

PROTIREZ S2015 paint is a dispersion of inorganic pigments and fillers in a solution of modified alkyd resins in organic solvents with the addition of a drying agent. Mixture of substances and additives specified below.

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: 1317-65-3 EC: 215-279-6	limestone	20-30		
EC: 905-588-0 Registration number: 01-2119539452-40	Technical xylene (mixed with ethylbenzene)	23-26	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Acute Tox. 4, H312+H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Specific concentration limit: STOT RE 2, H373 (central nervous system): C ≥ 10 %	4, 5
Index: 022-006-00-2 CAS: 13463-67-7 EC: 236-675-5 Registration number: 01-2119489379-17	titanium dioxide	≤18		1, 2, 3
CAS: 9011-11-4 EC: 618-465-9	prop-1-en-2-ylbenzene; styrene	≤14	not classified as dangerous	
CAS: 1309-37-1 EC: 215-168-2 Registration number: 01-2119457614-35-0000	diiron trioxide	≤8	not classified as dangerous	
EC: 919-857-5 Registration number: 01-2119463258-33	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	3-13	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336 EUH066	4, 5
CAS: 14807-96-6 EC: 238-877-9	talc (Mg3H2(SiO3)4)	≤6	not classified as dangerous	
Index: 030-011-00-6 CAS: 7779-90-0 EC: 231-944-3 Registration number: 01-2119485044-40-XXXX	trizinc bis(orthophosphate)	≤5.9	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	
CAS: 64742-82-1 EC: 919-446-0 Registration number: 01-2119458049-33	hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	5-6	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336 STOT RE 1, H372 (central nervous system, respiratory tract (inhalation)) Aquatic Chronic 2, H411 EUH066	5

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 68855-54-9 EC: 272-489-0 Registration number: 01-2119488518-22-xxxx	kieselguhr, soda ash flux-calcined	≤3		4
CAS: 1333-86-4 EC: 215-609-9 Registration number: 01-2119384822-32	carbon black	≤1.9		
Index: 607-025-00-1 CAS: 123-86-4 EC: 204-658-1 Registration number: 01-2119485493-29	n-butyl acetate	0.1-1	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	4
CAS: 64742-94-5 EC: 919-284-0 Registration number: 01-2119463588-24	Hydrocarbons, C10, aromatics, >1% naphthalene	0.1-1	Asp. Tox. 1, H304 STOT SE 3, H336 Carc. 2, H351 Aquatic Chronic 2, H411	5
CAS: 51274-00-1 EC: 257-098-5 Registration number: 01-2119457554-33	Iron hydroxide oxide yellow	≤0.5	not classified as dangerous	
CAS: 34590-94-8 EC: 252-104-2 Registration number: 01-2119450011-60	(2-methoxymethylethoxy)propanol	≤0.06	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	4
Index: 607-195-00-7 CAS: 108-65-6 EC: 203-603-9 Registration number: 01-2119475791-29	2-methoxy-1-methylethyl acetate	≤0.04	Flam. Liq. 3, H226 STOT SE 3, H336	4
Index: 030-013-00-7 CAS: 1314-13-2 EC: 215-222-5 Registration number: 01-2119463881-32	zinc oxide	≤0.02	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	
Index: 603-064-00-3 CAS: 107-98-2 EC: 203-539-1 Registration number: 01-2119457435-35	1-methoxy-2-propanol	≤0.005	Flam. Liq. 3, H226 STOT SE 3, H336	4
Index: 603-108-00-1 CAS: 78-83-1 EC: 201-148-0 Registration number: 01-2119484609-23	2-methylpropan-1-ol	≤0.005	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335, H336	
CAS: 7631-86-9 EC: 231-545-4 Registration number: 01-2119379499-16	Silica, amorphous	≤0.004	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: 649-405-00-X CAS: 64742-88-7 EC: 265-191-7 Registration number: 01-2119537181-47	solvent naphtha (petroleum), medium aliph.	≤0.004	Asp. Tox. 1, H304 STOT RE 1, H372 (central nervous system)	

Notes

- 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.*
- Note W: It has been observed that the carcinogenic hazard of this substance arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung.*

This note aims to describe the particular toxicity of the substance; it does not constitute a criterion for classification according to this Regulation.

- Note 10: The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter ≤ 10 µm.*
- A substance for which exposure limits are set.*
- Substance of unknown or variable composition, complex reaction products or biological materials - UVCB.*

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 unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

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. Rinse skin with water or shower.

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. Provide medical treatment, specialized if possible.

If swallowed

Rinse out the mouth with water and provide 2-5 dL of water. Provide medical treatment if the person has any health problems.

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

If inhaled

May cause respiratory irritation.

If on skin

Causes skin irritation.

If in eyes

Causes serious eye irritation.

If swallowed

Irritation, nausea.

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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

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

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. Closed containers with the product near the fire should be cooled with water. 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

Provide sufficient ventilation. Flammable liquid and vapour. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water. Do not allow to enter drains.

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 flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes. No smoking. Wash hands and exposed parts of the body thoroughly after handling. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take action to prevent static discharges. 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. Do not expose to sunlight. Store locked up. Keep container tightly closed. Keep cool.

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Content	Packaging type	Material of package
0,6 l	can / tin	FE
0,8 l	can / tin	FE
2,5 l	can / tin	FE
3,2 l	can / tin	FE
7,2 l	bucket	FE
9 l	bucket	FE
16 l	bucket	FE
190 l	barrel / drum	FE
18 l	bucket	FE
10 kg	bucket	FE
20 kg	bucket	FE
16 kg	bucket	FE
1 l	can / tin	FE
4 l	can / tin	FE
12 kg	bucket	FE
3,5 l	can / tin	FE
8 l	bucket	FE

Storage class 3A - Flammable liquids (flash point below 55 °C)
Storage temperature +5 až +25 °C

The specific requirements or rules relating to the substance/mixture

Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air.

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) 2019/1831

Substance name (component)	Type	Value
n-butyl acetate (CAS: 123-86-4)	OEL 8 hours	241 mg/m ³
	OEL 8 hours	50 ppm
	OEL 15 minutes	723 mg/m ³
	OEL 15 minutes	150 ppm

European Union

Commission Directive 2000/39/EC

Substance name (component)	Type	Value
(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
	OEL 8 hours	44,55 ppm
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	OEL 8 hours	275 mg/m ³
	OEL 8 hours	50 ppm
	OEL 15 minutes	550 mg/m ³
	OEL 15 minutes	100 ppm
1-methoxy-2-propanol (CAS: 107-98-2)	OEL 8 hours	375 mg/m ³
	OEL 8 hours	100 ppm
	OEL 15 minutes	568 mg/m ³

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European Union

Commission Directive 2000/39/EC

Substance name (component)	Type	Value
1-methoxy-2-propanol (CAS: 107-98-2)	OEL 15 minutes	150 ppm

Notes

Skin.

European Union

Commission Directive 91/322/EEC

Substance name (component)	Type	Value
Technical xylene (mixed with ethylbenzene)	OEL 8 hours	442 mg/m ³
	OEL 8 hours	100 ppm
	OEL 15 minutes	884 mg/m ³
	OEL 15 minutes	200 ppm
	OEL 8 hours	221 mg/m ³
	OEL 8 hours	50 ppm
	OEL 15 minutes	442 mg/m ³
	OEL 15 minutes	100 ppm
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	OEL 8 hours	1200 mg/m ³
	OEL 15 minutes	197 ppm
kieselguhr, soda ash flux-calcined (CAS: 68855-54-9)	OEL 8 hours	0,1 mg/m ³

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

1-methoxy-2-propanol				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	553.5 mg/m ³	Acute effects systemic	BL dodavatele
Workers	Inhalation	553.5 mg/m ³	Acute effects local	BL dodavatele
Workers	Dermal	183 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Workers	Inhalation	369 mg/m ³	Chronic effects systemic	BL dodavatele
Consumers	Dermal	78 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Inhalation	43.9 mg/m ³	Chronic effects systemic	BL dodavatele
Consumers	Oral	33 mg/kg bw/day	Chronic effects systemic	BL dodavatele

2-methoxy-1-methylethyl acetate				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	275 mg/m ³	Chronic effects systemic	BL dodavatele
Workers	Dermal	796 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Inhalation	33 mg/m ³	Chronic effects systemic	BL dodavatele
Consumers	Dermal	320 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Oral	36 mg/kg bw/day	Chronic effects systemic	BL dodavatele

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2-methylpropan-1-ol				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	310 mg/m ³	Chronic effects local	BL dodavatele
Consumers	Inhalation	55 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

Hydrocarbons, C10, aromatics, >1% naphthalene				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	151 mg/m ³	Chronic effects systemic	ECHA
Workers	Dermal	12.5 mg/kg bw/day	Chronic effects systemic	ECHA
Consumers	Inhalation	32 mg/m ³	Chronic effects systemic	ECHA
Consumers	Dermal	32 mg/kg bw/day	Chronic effects systemic	ECHA
Consumers	Oral	7.5 mg/kg bw/day	Chronic effects systemic	ECHA

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers (0)	Inhalation	871 mg/m ³	Chronic effects systemic	BL dodavatele
Workers (0)	Dermal	208 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers (0)	Inhalation	185 mg/m ³	Chronic effects systemic	BL dodavatele
Consumers (0)	Dermal	125 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers (0)	Oral	125 mg/kg bw/day	Chronic effects systemic	BL dodavatele

hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	330 mg/m ³	Chronic effects systemic	BL dodavatele
Workers	Dermal	44 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Inhalation	71 mg/m ³	Chronic effects systemic	BL dodavatele
Consumers	Dermal	26 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Oral	26 mg/kg bw/day	Chronic effects systemic	BL dodavatele

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

kieselguhr, soda ash flux-calcined				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers (0)	Inhalation	0.05 mg/m ³	Chronic effects systemic	BL dodavatele
Consumers (0)	Oral	18.7 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers (0)	Inhalation	0.05 mg/m ³	Chronic effects systemic	BL dodavatele

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n-butyl acetate				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	600 mg/m ³	Acute effects local	BL dodavatele
Consumers	Inhalation	300 mg/m ³	Acute effects local	BL dodavatele
Workers	Inhalation	300 mg/m ³	Chronic effects local	BL dodavatele
Consumers	Inhalation	35.7 mg/m ³	Chronic effects local	BL dodavatele
Workers	Dermal	11 mg/kg	Chronic effects systemic	BL dodavatele
Workers	Dermal	11 mg/kg	Acute effects systemic	BL dodavatele
Consumers	Dermal	6 mg/kg	Chronic effects systemic	BL dodavatele
Consumers	Dermal	6 mg/kg	Acute effects systemic	BL dodavatele
Consumers	Oral	2 mg/kg	Chronic effects systemic	BL dodavatele
Consumers	Oral	2 mg/kg	Acute effects systemic	BL dodavatele

Silica, amorphous				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	4 mg/m ³	Chronic effects systemic	BL dodavatele

Technical xylene (mixed with ethylbenzene)				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	77 mg/m ³	Chronic effects systemic	ECHA
Workers	Inhalation	289 mg/m ³	Acute effects local	ECHA
Workers	Dermal	180 mg/kg bw/day	Chronic effects systemic	ECHA
Consumers	Inhalation	14.8 mg/m ³	Chronic effects systemic	ECHA
Consumers	Dermal	108 mg/kg bw/day	Chronic effects systemic	ECHA
Consumers	Oral	1.6 mg/kg bw/day	Chronic effects systemic	ECHA

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

trizinc bis(orthophosphate)				
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	0.83 mg/kg bw/day	Chronic effects systemic	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

1-methoxy-2-propanol		
Route of exposure	Value	Source
Freshwater environment	10 mg/l	BL dodavatele
Marine water	1 mg/l	BL dodavatele
Water (intermittent release)	100 mg/l	BL dodavatele
Microorganisms in sewage treatment	100 mg/l	BL dodavatele
Freshwater sediment	52.3 mg/kg of dry substance of sediment	BL dodavatele
Sea sediments	5.2 mg/kg of dry substance of sediment	BL dodavatele
Soil (agricultural)	4.59 mg/kg of dry substance of soil	BL dodavatele

2-methoxy-1-methylethyl acetate		
Route of exposure	Value	Source
Freshwater environment	0.635 mg/l	BL dodavatele
Marine water	0.0635 mg/l	BL dodavatele
Microorganisms in sewage treatment	100 mg/l	BL dodavatele
Freshwater sediment	3.29 mg/kg of dry substance of sediment	BL dodavatele
Sea sediments	0.329 mg/kg of dry substance of sediment	BL dodavatele
Soil (agricultural)	0.29 mg/kg of dry substance of soil	BL dodavatele

2-methylpropan-1-ol		
Route of exposure	Value	Source
Freshwater environment	0.4 mg/l	BL dodavatele
Marine water	0.04 mg/l	BL dodavatele
Water (intermittent release)	11 mg/l	BL dodavatele
Microorganisms in sewage treatment	10 mg/l	BL dodavatele
Freshwater sediment	1.52 mg/kg of dry substance of sediment	BL dodavatele
Sea sediments	0.152 mg/kg of dry substance of sediment	BL dodavatele
Soil (agricultural)	0.0699 mg/kg of dry substance of soil	BL dodavatele

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

kieselguhr, soda ash flux-calcined		
Route of exposure	Value	Source
Microorganisms in sewage treatment	100 mg/l	BL dodavatele

n-butyl acetate		
Route of exposure	Value	Source
Freshwater environment	0.18 mg/l	BL dodavatele
Marine water	0.018 mg/l	BL dodavatele
Water (intermittent release)	0.36 mg/l	BL dodavatele
Microorganisms in sewage treatment	35.6 mg/l	BL dodavatele
Freshwater sediment	0.981 mg/kg	BL dodavatele
Sea sediments	0.0981 mg/kg	BL dodavatele
Soil (agricultural)	0.0903 mg/kg	BL dodavatele

Technical xylene (mixed with ethylbenzene)		
Route of exposure	Value	Source
Freshwater environment	327 µg/l	ECHA
Marine water	327 µg/l	ECHA
Soil (agricultural)	2.31 mg/kg of dry substance of soil	ECHA
Food chain	327 µg/l	ECHA
Microorganisms in sewage treatment	6.58 mg/l	EHCA
Sea sediments	12.46 mg/kg of dry substance of sediment	ECHA
Freshwater sediment	12.46 mg/kg of dry substance of sediment	ECHA

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

trizinc bis(orthophosphate)		
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

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trizinc bis(orthophosphate)		
Route of exposure	Value	Source
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

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

Take off contaminated clothing and wash before reuse. Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. 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

Protective goggles.

Skin protection

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

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. Collect spillage.

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, grey, green, yellow, mixture containing generic product identifier "colorant", by shades
Odour	after organic solvents
Melting point/freezing point	data not available
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	-83 °C (BL dodavatele)
1-methoxy-2-propanol (CAS: 107-98-2)	-96 °C (BL dodavatele)

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2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	-66 °C (BL dodavatele)
2-methylpropan-1-ol (CAS: 78-83-1)	<-90 °C (BL dodavatele)
carbon black (CAS: 1333-86-4)	3652-3697 °C (BL dodavatele)
diiron trioxide (CAS: 1309-37-1)	>1000 °C (BL dodavatele)
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (CAS: 64742-82-1)	-73 °C (BL dodavatele)
Iron hydroxide oxide yellow (CAS: 51274-00-1)	>1000 °C (BL dodavatele)
kieselguhr, soda ash flux-calcined (CAS: 68855-54-9)	449.85 °C (ECHA)
n-butyl acetate (CAS: 123-86-4)	-78 °C (BL dodavatele)
Silica, amorphous (CAS: 7631-86-9)	1700 °C (BL dodavatele)
talc (Mg3H2(SiO3)4) (CAS: 14807-96-6)	>1300 °C (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	-94.96-13.2 °C (BL dodavatele)
titanium dioxide (CAS: 13463-67-7)	>1560 °C (BL dodavatele)
trizinc bis(orthophosphate) (CAS: 7779-90-0)	912 °C (BL dodavatele)
zinc oxide (CAS: 1314-13-2)	>1000 °C (BL dodavatele)
Boiling point or initial boiling point and boiling range	data not available
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	189.6 °C (BL dodavatele)
1-methoxy-2-propanol (CAS: 107-98-2)	120.15 °C (BL dodavatele)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	145.8 °C (BL dodavatele)
2-methylpropan-1-ol (CAS: 78-83-1)	108 °C (BL dodavatele)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	154-193 °C (BL dodavatele)
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (CAS: 64742-82-1)	155-194 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	124-126.5 °C (BL dodavatele)
solvent naphtha (petroleum), medium aliph. (CAS: 64742-88-7)	146-299 °C (ECHA)
Technical xylene (mixed with ethylbenzene)	136.2-144.5 °C (BL dodavatele)
titanium dioxide (CAS: 13463-67-7)	3000 °C (BL dodavatele)
Flammability	Flammable liquid of risk class II (ČSN 65 0201)
limestone (CAS: 1317-65-3)	non-inflammable (10 mg/l při 20°C, 15 mg/l při 25°C)
n-butyl acetate (CAS: 123-86-4)	inflammable (odvozeno od bodu vzplanutí)
Technical xylene (mixed with ethylbenzene)	inflammable (BL dodavatele)
trizinc bis(orthophosphate) (CAS: 7779-90-0)	Produkt není hořlavý. nehořlavý (BL dodavatele)
Lower and upper explosion limit	
bottom	0.6 % (for Hydrocarbons, C10, aromatic, >1% naphthalene)
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	1.1 % (BL dodavatele)
1-methoxy-2-propanol (CAS: 107-98-2)	1.48 % (BL dodavatele)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	1.5 % (BL dodavatele)
2-methylpropan-1-ol (CAS: 78-83-1)	1.7 % (BL dodavatele)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	0.7 % (BL dodavatele)
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (CAS: 64742-82-1)	0.7 % (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	1.2 % (literatura)
Technical xylene (mixed with ethylbenzene)	0.8 % (BL dodavatele)
upper	50 % (for butan-2-one-oxime)
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	14 % (BL dodavatele)
1-methoxy-2-propanol (CAS: 107-98-2)	13.7 % (BL dodavatele)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	7.0 % (BL dodavatele)
2-methylpropan-1-ol (CAS: 78-83-1)	10.9 % (BL dodavatele)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	6 % (BL dodavatele)

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hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (CAS: 64742-82-1)	6 % (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	7.6 % (literatura)
Technical xylene (mixed with ethylbenzene)	7 % (BL dodavatele)
Flash point	31.5 °C (PND EN 456)
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	75 °C (BL dodavatele)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	45 °C (BL dodavatele)
2-methylpropan-1-ol (CAS: 78-83-1)	31 °C (BL dodavatele)
carbon black (CAS: 1333-86-4)	>600 °C (BL dodavatele)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	41 °C (BL dodavatele)
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (CAS: 64742-82-1)	43 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	27 °C (BL dodavatele)
prop-1-en-2-ylbenzene; styrene (CAS: 9011-11-4)	>250 °C (BL dodavatele)
solvent naphtha (petroleum), medium aliph. (CAS: 64742-88-7)	29-70 °C (ECHA)
Technical xylene (mixed with ethylbenzene)	18-32 °C (BL dodavatele)
Auto-ignition temperature	data not available
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	207 °C (BL dodavatele)
1-methoxy-2-propanol (CAS: 107-98-2)	287 °C (BL dodavatele)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	333 °C (BL dodavatele)
2-methylpropan-1-ol (CAS: 78-83-1)	400 °C (BL dodavatele)
carbon black (CAS: 1333-86-4)	>140 °C (BL dodavatele)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	237 °C (BL dodavatele)
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (CAS: 64742-82-1)	242 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	415 °C (BL dodavatele)
solvent naphtha (petroleum), medium aliph. (CAS: 64742-88-7)	220-250 °C (ECHA)
Technical xylene (mixed with ethylbenzene)	432-528 °C (BL dodavatele)
Decomposition temperature	data not available
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	non-soluble (in water)
2-methylpropan-1-ol (CAS: 78-83-1)	7 (undiluted at 20 °C) (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)
kieselguhr, soda ash flux-calcined (CAS: 68855-54-9)	8-11 (10% solution) (BL dodavatele)
limestone (CAS: 1317-65-3)	8.5-10.5 (10% solution at 20 °C) (BL dodavatele)
talc (Mg3H2(SiO3)4) (CAS: 14807-96-6)	9-9.5 (10% solution) (BL dodavatele)
trizinc bis(orthophosphate) (CAS: 7779-90-0)	6-8 (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)
1-methoxy-2-propanol (CAS: 107-98-2)	1.86 mm²/s at 25 °C (BL dodavatele)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	1.23 mm²/s at 40 °C (BL dodavatele)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	1.02 mm²/s at 40 °C (BL dodavatele)
	1.35 mm²/s at 20 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	0.83 mm²/s at 20 °C (BL dodavatele)
Solubility in water	not miscible

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(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	>1000 g/l (25 °C) (BL dodavatele)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	247 g/l (BL dodavatele)
2-methylpropan-1-ol (CAS: 78-83-1)	70 g/l (20 °C) (BL dodavatele)
Iron hydroxide oxide yellow (CAS: 51274-00-1)	insoluble (BL dodavatele)
kieselguhr, soda ash flux-calcined (CAS: 68855-54-9)	nerozpustný (3.7 mg/l při 20°C) (BL dodavatele; ECHA)
limestone (CAS: 1317-65-3)	almost insoluble (BL dodavatele (10 mg/l při 20°C, 15 mg/l při 25°C))
n-butyl acetate (CAS: 123-86-4)	5.3 g/l při 20 °C (pH 6) (BL dodavatele)
prop-1-en-2-ylbenzene; styrene (CAS: 9011-11-4)	insoluble (BL dodavatele)
Silica, amorphous (CAS: 7631-86-9)	>1 mg/l (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	146-190.7 mg/l při 25 °C (BL dodavatele)
titanium dioxide (CAS: 13463-67-7)	soluble (BL dodavatele)
trizinc bis(orthophosphate) (CAS: 7779-90-0)	<0.01 % (nerozpustný) (BL dodavatele)
zinc oxide (CAS: 1314-13-2)	2.9 mg/l (BL dodavatele)
Partition coefficient n-octanol/water (log value)	LogPow 0.37 to 6 (range of ingredients included)
2-methylpropan-1-ol (CAS: 78-83-1)	1 (BL dodavatele)
Vapour pressure	0.067 hPa to 21 hPa at 20 °C (range of ingredients included)
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	0.037 kPa at 20 °C (BL dodavatele)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	355 at 20 °C (BL dodavatele)
2-methylpropan-1-ol (CAS: 78-83-1)	16 hPa at 20 °C (BL dodavatele)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	20 hPa at 20 °C (BL dodavatele)
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (CAS: 64742-82-1)	0.2 kPa at 20 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	12-21 at 20 °C (literatura)
solvent naphtha (petroleum), medium aliph. (CAS: 64742-88-7)	10-37 hPa at 38 °C (ECHA)
Technical xylene (mixed with ethylbenzene)	650-944 Pa (BL dodavatele)
trizinc bis(orthophosphate) (CAS: 7779-90-0)	<1 hPa (BL dodavatele)
Density and/or relative density	
Density	1.12-1.52 g/cm³ at 20 °C (ČSN EN ISO 2811-2)
1-methoxy-2-propanol (CAS: 107-98-2)	0.919 g/cm³ at 25 °C (BL dodavatele)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	0.964 g/cm³ at 25 °C (BL dodavatele)
2-methylpropan-1-ol (CAS: 78-83-1)	0.8017 g/cm³ at 20 °C (BL dodavatele)
carbon black (CAS: 1333-86-4)	1.7-1.9 g/cm³ at 20 °C (BL dodavatele)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	0.78 g/cm³ at 15 °C (BL dodavatele)
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (CAS: 64742-82-1)	0.79 g/cm³ at 15 °C (BL dodavatele)
Iron hydroxide oxide yellow (CAS: 51274-00-1)	4.1 g/cm³ at 20 °C (BL dodavatele)
kieselguhr, soda ash flux-calcined (CAS: 68855-54-9)	2.36 g/cm³ at 20 °C (ECHA)
limestone (CAS: 1317-65-3)	2.4-2.9 g/cm³ (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	0.8812 g/cm³ at 20 °C (BL dodavatele)
prop-1-en-2-ylbenzene; styrene (CAS: 9011-11-4)	1.05-1.07 g/cm³ at 20 °C (BL dodavatele)
Silica, amorphous (CAS: 7631-86-9)	2.2 g/cm³ at 20 °C (BL dodavatele)
solvent naphtha (petroleum), medium aliph. (CAS: 64742-88-7)	0.77-0.85 g/cm³ at 15 °C (ECHA)
talc (Mg3H2(SiO3)4) (CAS: 14807-96-6)	2.58-2.83 g/cm³ (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	0.862-0.88 g/cm³ at 25 °C (BL dodavatele)
trizinc bis(orthophosphate) (CAS: 7779-90-0)	3.3-3.7 g/cm³ (BL dodavatele)
zinc oxide (CAS: 1314-13-2)	5.68 g/cm³ at 22 °C (BL dodavatele)
Relative vapour density	data not available
Particle characteristics	data not available
Form	liquid, medium viscous liquid of thixotropic nature, without extraneous mechanical impurities
kieselguhr, soda ash flux-calcined (CAS: 68855-54-9)	solid: particulate/powder (BL dodavatele)

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9.2. Other information

Ignition temperature	255 °C (PND 33 0371)
Vapour density	> 1 (air = 1)
Combustion temperature	117 °C (PND 65 6212)
Molar weight	data not available
1-methoxy-2-propanol (CAS: 107-98-2)	90.1 g/mol (BL dodavatele)
Content of organic solvents (VOC)	0.405 kg/kg (calculation)
Total organic carbon (TOC)	0.376 kg/kg (calculation)
Solid content (dry matter)	≥55 % weight (manufacturer's methodology B5/TD1-12B (ČSN EN ISO 3251))
VOC limit value	cat. A (i) SB: 500 g/l
Max. VOC content in the product in its ready to use condition	481 g/l (calculation)
Calorific value: 18.26 MJ/kg (PND 65 6169); Heat of combustion: 19.98 MJ/kg (PND 65 6169); Temperature class: T3 (PND 33 0371).	

SECTION 10: Stability and reactivity

10.1. Reactivity

not available

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

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. 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		36186 mg/kg				Calculation of value	
Dermal	ATE		4564 mg/kg				Calculation of value	
Inhalation (vapor)	ATE		44.9 mg/l				Calculation of value	

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(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
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					

1-methoxy-2-propanol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		4016 mg/kg		Rat			BL dodavatele
Dermal	LD ₅₀		>2000 mg/kg		Rabbit			BL dodavatele
Inhalation (vapor)	LC ₅₀		>25.8 mg/l	6 hours	Rat			BL dodavatele

2-methoxy-1-methylethyl acetate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀	OECD 401	6190 mg/kg		Rat (Rattus norvegicus)	F/M		BL dodavatele
Inhalation	LC ₀		>23.5 mg/l	6 hours	Rat (Rattus norvegicus)			BL dodavatele
Dermal	LD ₅₀	OECD 402	>5000 mg/kg		Rat (Rattus norvegicus)			BL dodavatele
Inhalation (gases)	LC ₅₀	OECD 403	>2000 ppm	3 hours	Rat (Rattus norvegicus)	M		BL dodavatele

2-methylpropan-1-ol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀	OECD 401	>2000 mg/kg		Rat (Rattus norvegicus)			BL dodavatele

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2-methylpropan-1-ol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Inhalation (vapor)	LC ₅₀		>18.18 mg/l of air	14 days	Rat (Rattus norvegicus)			BL dodavatele
Dermal	LD ₅₀	OECD 402	>2000 mg/kg		Rabbit			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

Hydrocarbons, C10, aromatics, >1% naphthalene

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀	OECD 401	>5000 mg/kg		Rat			
Dermal	LD ₅₀	OECD 402	>2000 mg/kg bw		Rabbit			
Inhalation (vapor)	LC ₅₀	OECD 403	4688 mg/m ³		Rat			

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀	OECD 401	>5000 mg/kg		Rat			BL dodavatele
Inhalation	LC ₅₀	OECD 403	5000 mg/m ³	4 hours	Rat			BL dodavatele
Dermal	LD ₅₀	OECD 402	>5000 mg/kg		Rabbit			BL dodavatele

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hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		15000 mg/kg bw		Rat			ECHA
Inhalation	LD ₅₀		13.1 mg/l of air	4 hours	Rat			ECHA
Dermal	LD ₅₀		4 ml/kg bw		Rat			ECHA
Inhalation	NOAEL		300 ppm		Rat			ECHA
Dermal	NOAEL		495 mg/kg bw/day		Rat			ECHA

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 dodavat ele
Inhalation (dust/mist)	LD ₅₀		>195 mg/m ³	2 weeks	Rat			BL dodavat ele

kieselguhr, soda ash flux-calcined

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀	OECD 401	>2000 mg/kg		Rat (Rattus norvegicus)			BL dodavat ele
Inhalation	LC ₅₀	OECD 403	>2.6 mg/l		Rat (Rattus norvegicus)			BL dodavat ele

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 dodavat ele

n-butyl acetate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		10736 mg/kg		Rat (Rattus norvegicus)			BL dodavat ele
Inhalation	LC ₅₀	OECD 403	>21.1 mg/l	4 hours	Rat (Rattus norvegicus)			BL dodavat ele
Dermal	LD ₅₀		>14000 mg/kg		Rabbit			BL dodavat ele
Inhalation	LC ₀		>38.32 mg/l	6 hours	Rat (Rattus norvegicus)			BL dodavat ele

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prop-1-en-2-ylbenzene; styrene

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀	OECD 423	>2000 mg/kg		Rat (Rattus norvegicus)			BL dodavatele

Silica, amorphous

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

solvent naphtha (petroleum), medium aliph.

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		5000 mg/kg		Rat			ECHA
Inhalation	LC ₅₀		5.28 mg/l	4 hours	Rat			ECHA
Dermal	LD ₅₀		2000 mg/kg		Rabbit			ECHA
Oral	NOAEL		750 mg/kg bw/day		Rat			ECHA
Inhalation	NOAEL		1 mg/l of air		Rat			ECHA
Inhalation	NOAEL		1 mg/l of air		Mouse			ECHA
Inhalation	LOAEL		500 mg/m ³ of air		Rat			ECHA
Inhalation	NOAEC		24 mg/m ³ of air		Rat			ECHA

Technical xylene (mixed with ethylbenzene)

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		3523 mg/kg bw		Rat			ECHA
Inhalation (vapor)	LD ₅₀		6350 ppm	4 hours	Rat			ECHA
Dermal	LD ₅₀		12126 mg/kg bw		Rabbit			ECHA
Oral	NOAEL		150 mg/kg bw		Rat			ECHA
Oral	LOAEL		150 mg/kg bw		Rat			ECHA

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

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trizinc bis(orthophosphate)

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		> 5000 mg/kg bw/day		Rat			BL dodavatele
Inhalation	LC ₅₀		> 5.7 mg/l	4 hours	Rat			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

Skin corrosion/irritation

Causes skin irritation.

2-methoxy-1-methylethyl acetate

Route of exposure	Result	Method	Exposure time	Species	Source
Dermal	Not irritating	OECD 404		Rabbit	BL dodavatele

2-methylpropan-1-ol

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

Hydrocarbons, C10, aromatics, >1% naphthalene

Route of exposure	Result	Method	Exposure time	Species	Source
Dermal	Negative	OECD 404			

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics

Route of exposure	Result	Method	Exposure time	Species	Source
	Slightly irritating	OECD 404			BL dodavatele

kieselguhr, soda ash flux-calcined

Route of exposure	Result	Method	Exposure time	Species	Source
	Not irritating	OECD 404		Rabbit	BL dodavatele

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talc ($Mg_3H_2(SiO_3)_4$)

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

Serious eye damage/irritation

Causes serious eye irritation.

2-methoxy-1-methylethyl acetate

Route of exposure	Result	Method	Exposure time	Species	Source
Eye	Slightly irritating	OECD 405		Rabbit	BL dodavatele

2-methylpropan-1-ol

Route of exposure	Result	Method	Exposure time	Species	Source
Eye	Serious eye damage	OECD 405		Rabbit	BL dodavatele

Hydrocarbons, C10, aromatics, >1% naphthalene

Route of exposure	Result	Method	Exposure time	Species	Source
Eye	Negative	OECD 405			

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics

Route of exposure	Result	Method	Exposure time	Species	Source
Eye	Slightly irritating	OECD 405			BL dodavatele

kieselguhr, soda ash flux-calcined

Route of exposure	Result	Method	Exposure time	Species	Source
Eye	Not irritating	OECD 405		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-methoxy-1-methylethyl acetate

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

Hydrocarbons, C10, aromatics, >1% naphthalene

Route of exposure	Result	Method	Exposure time	Species	Sex	Source
Dermal	Negative	OECD 406				

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Sensitization

kieselguhr, soda ash flux-calcined						
Route of exposure	Result	Method	Exposure time	Species	Sex	Source
	Not irritating	OECD 429		Guinea-pig (Cavia aperea f. porcellus)		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.

Hydrocarbons, C10, aromatics, >1% naphthalene						
Result	Method	Exposure time	Specific target organ	Species	Sex	Source
Negative	OECD 471					

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics						
Result	Method	Exposure time	Specific target organ	Species	Sex	Source
Negative	OECD 471					BL dodavatele

kieselguhr, soda ash flux-calcined						
Result	Method	Exposure time	Specific target organ	Species	Sex	Source
Negative	OECD 471					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-methoxy-1-methylethyl acetate								
Route of exposure	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
Inhalation	NOAEL		≥11.07 mg/l	24 months (6 hour/day, 5 days/week)		Rat (Rattus norvegicus)	F/M	BL dodavatele

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics								
Route of exposure	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
		OECD 453			Negative			BL dodavatele

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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	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
Developmental toxicity	NOEC		1818.4 mg/m ³	10 days (6 hour/day)		Rabbit		BL dodavatele

2-methylpropan-1-ol								
Effect	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
Effects on fertility	NOAEL		7.5 mg/l		Negative	Rat (Rattus norvegicus)		BL dodavatele
Developmental toxicity	NOAEL	OECD 414	10 mg/l		Negative	Rat (Rattus norvegicus)		BL dodavatele

Hydrocarbons, C10, aromatics, >1% naphthalene								
Effect	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
		OECD 414			Negative			

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics								
Effect	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
		OECD 413			Negative			BL dodavatele

Toxicity for specific target organ - single exposure

May cause respiratory irritation.

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics						
Route of exposure	Parameter	Value	Result	Species	Sex	Source
			Positive			BL dodavatele

Toxicity for specific target organ - repeated exposure

May cause damage to the central nervous system, the respiratory tract (inhalation) through prolonged or repeated exposure.

Hydrocarbons, C10, aromatics, >1% naphthalene								
Route of exposure	Parameter	Method	Value	Specific target organ	Result	Species	Sex	Source
Oral		OECD 408			Negative			

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Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics

Route of exposure	Parameter	Method	Value	Specific target organ	Result	Species	Sex	Source
		OECD 408			Negative			BL dodavatele

kieselguhr, soda ash flux-calcined

Route of exposure	Parameter	Method	Value	Specific target organ	Result	Species	Sex	Source
	STOT RE 2			Lungs				BL dodavatele

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 dodavatele
Inhalation (vapor)	NOAEL		OECD 413	1232 mg/m ³	13 weeks (6 hour/day, 5 days/week)	Rat (Rattus norvegicus)	F/M	BL dodavatele
Dermal	NOAEL		OECD 411	2850 mg/kg	90 days (5 days/week)	Rabbit	M	BL dodavatele

2-methoxy-1-methylethyl acetate

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Inhalation	NOAEL			1000 ppm		Rat		ECHA
Dermal	NOAEL			1000-1838 mg/kg bw/day		Rabbit		ECHA
Oral	NOAEL		OECD 422	1000 mg/kg		Rat (Rattus norvegicus)	F/M	BL dodavatele

2-methylpropan-1-ol

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Drinking water	NOAEL	Negative	OECD 408	1450 mg/kg	90 days	Rat (Rattus norvegicus)		BL dodavatele

Hydrocarbons, C10, aromatics, >1% naphthalene

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOEL			300 mg/kg bw		Rat		ECHA
Inhalation	NOAEC			900 - 1 800 mg/m ³ of air		Rat		ECHA

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL			500-5000 mg/kg bw/day		Rat		ECHA
Inhalation	NOAEL			200 ppm		Rat		ECHA

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trizinc bis(orthophosphate)								
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL			31.52 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

Aspiration hazard

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

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics					
Route of exposure	Result	Exposure time	Species	Sex	Source
	Positive				BL dodavatele

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

Toxic 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

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1-methoxy-2-propanol

Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀	OECD 203	≥1000 mg/l	96 hours	Fish (Oncorhynchus mykiss)		BL dodavatel e
LC ₅₀		6812 mg/l	96 hours	Fish (Leuciscus idus (Jesen zlatý))		BL dodavatel e
LC ₅₀	OECD 203	20800 mg/l	96 hours	Fish (Pimephales promelas (střevle))		BL dodavatel e
LC ₅₀	OECD 202	21100 mg/l	48 hours	Daphnia (Daphnia magna (perloočka velká))		BL dodavatel e
ErC ₅₀	OECD 201	>1000 mg/l	7 days	Algae (Pseudokirchneriella subcapitata (zelené řasy))		BL dodavatel e

2-methoxy-1-methylethyl acetate

Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		134 mg/l	96 hours	Fish (Oncorhynchus mykiss)		BL dodavatel e
EC ₅₀		408 mg/l	48 hours	Daphnia (Daphnia magna)		BL dodavatel e
EC ₅₀		500 mg/l	48 hours	Aquatic invertebrates		echa
ErC ₅₀	OECD 201	>1000 mg/l	96 hours	Algae (Selenastrum capricornutum)		BL dodavatel e
EC ₁₀		1 g/l	30 minutes	Microorganisms (Photobacterium phosphoreum)		echa

2-methylpropan-1-ol

Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		>100 mg/l	96 hours	Fish (Pimephales promelas)		BL dodavatel e
EC ₅₀		>100 mg/l	48 hours	Daphnia (Daphnia pulex)		BL dodavatel e
EC ₅₀	OECD 201	>100 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)		BL dodavatel e
EC ₁₀	OECD 209	>100 mg/l	16 hours	Bacteria (Pseudomonas putida)		BL dodavatel e

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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

diiron trioxide

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

Hydrocarbons, C10, aromatics, >1% naphthalene

Parameter	Method	Value	Exposure time	Species	Environment	Source
LL ₅₀		2-5 mg/l	96 hours	Fish (Oncorhynchus mykiss)		
EL ₅₀		3-10 mg/l	48 hours	Daphnia (Daphnia magna)		
NOELR		1 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)		
EL ₅₀		1-3 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)		

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics

Parameter	Method	Value	Exposure time	Species	Environment	Source
EL ₅₀		>1000 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)		BL dodavatel e
EL ₀		1000 mg/l	48 hours	Daphnia (Daphnia magna (Hrotnatka velká))		BL dodavatel e
LL ₅₀		>1000 mg/l	96 hours	Fish (Oncorhynchus mykiss)		BL dodavatel e
NOELR		100 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)		BL dodavatel e

hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀	OECD 203	10-30 mg/l	96 hours	Fish (Oncorhynchus mykiss)		BL dodavatel e

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hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Parameter	Method	Value	Exposure time	Species	Environment	Source
EC ₅₀	OECD 202	10-22 mg/l	48 hours	Daphnia (Daphnia magna)		BL dodavatel e
ErC ₅₀	OECD 201	4.1 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)		BL dodavatel e

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 dodavatel e
EC ₅₀	OECD 202	>100 mg/l	48 hours	Daphnia (Daphnia magna)	Fresh water	BL dodavatel e
LC ₀	OECD 203	>1000000 mg/l	96 hours	Fish (Oncorhynchus mykiss)	Fresh water	BL dodavatel e

kieselguhr, soda ash flux-calcined

Parameter	Method	Value	Exposure time	Species	Environment	Source
EC ₅₀	OECD 209	>1000 mg/l	3 hours	Microorganisms	Activated sludge	BL dodavatel e
NOEC		1 mg/l	3 hours	Microorganisms (Photobacterium phosphoreum)		ECHA

limestone

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

n-butyl acetate

Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		18 mg/l	96 hours	Fish (Pimephales promelas)		BL dodavatel e
EC ₅₀		44 mg/l	48 hours	Aquatic invertebrates (Daphnia sp.)		BL dodavatel e
EC ₅₀		397 mg/l	72 hours	Algae and other aquatic plants (Pseudokirchneriella subcapitata)		BL dodavatel e

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n-butyl acetate

Parameter	Method	Value	Exposure time	Species	Environment	Source
EC ₅₀		356 mg/l	40 hours	Microorganisms (Tetrahymena pyriformis)		BL dodavatel e
EC ₅₀	OECD 208	>1000 mg/kg	14 days	Algae (Selenastrum capricornutum)		BL dodavatel e

Silica, amorphous

Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀	OECD 203	>10000 mg/l	96 hours	Fish (Danio rerio)		BL dodavatel e
EC ₅₀	OECD 202	>1000 mg/l	24 hours	Daphnia (Daphnia magna)		BL dodavatel e
EC ₅₀		120 mg/l	48 hours	Algae (Selenastrum capricornutum)		BL dodavatel e
NOEC		60 mg/l	48 hours	Algae (Selenastrum capricornutum)		BL dodavatel e

talc (Mg₃H₂(SiO₃)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

Technical xylene (mixed with ethylbenzene)

Parameter	Method	Value	Exposure time	Species	Environment	Source
EC ₅₀		96 mg/l	24 hours	Microorganisms (Photobacterium phosphoreum)		ECHA
EC ₅₀		2.2 mg/l	73 hours	Algae (Selenastrum capricornutum)		ECHA
IC ₅₀		1 mg/l	24 hours	Aquatic invertebrates		ECHA
LC ₅₀		2.6 mg/l	4 days	Fish (Oncorhynchus mykiss)		ECHA

titanium dioxide

Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		>100 mg/l	96 hours	Fish (Oncorhynchus mykiss)	Fresh water	BL dodavatel e

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titanium dioxide

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

trizinc bis(orthophosphate)

Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		112 µg/l	96 days	Fish		BL dodavatel e
EC ₅₀		0.413 mg/l	48 hours	Daphnia (Ceriodaphnia dubia)		BL dodavatel e
ErC ₅₀		0.136 mg/l	72 hours	Algae (Selenastrum capricornutum)		BL dodavatel e
EC ₅₀		5.2 mg/l	3 hours	Microorganisms (Photobacterium phosphoreum)		echa

zinc oxide

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

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

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2-methoxy-1-methylethyl acetate

Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		63.5 mg/l	14 days	Fish (Oncorhynchus mykiss)		ECHA

2-methylpropan-1-ol

Parameter	Method	Value	Exposure time	Species	Environment	Source
NOEC		20 mg/l	21 days	Daphnia (Daphnia magna)		BL dodavatel

Hydrocarbons, C10, aromatics, >1% naphthalene

Parameter	Method	Value	Exposure time	Species	Environment	Source
NOELR		0.487 mg/l	28 days	Fish (Oncorhynchus mykiss)		ECHA

n-butyl acetate

Parameter	Method	Value	Exposure time	Species	Environment	Source
NOEC	OECD 211	23 mg/l	21 days	Daphnia (Daphnia magna)		BL dodavatel

Technical xylene (mixed with ethylbenzene)

Parameter	Method	Value	Exposure time	Species	Environment	Source
NOEC		960 µg/l		Aquatic invertebrates		ECHA
NOEC		1.3 mg/l	56 days	Fish (Oncorhynchus mykiss)		ECHA

zinc oxide

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

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

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1-methoxy-2-propanol

Parameter	Method	Value	Exposure time	Environment	Result	Source
Biologické odbourání	OECD 301E	96 %	28 days		Easily biodegradable	BL dodavatel

2-methylpropan-1-ol

Parameter	Method	Value	Exposure time	Environment	Result	Source
	OECD 301D	>70 %	28 days		Easily biodegradable	BL dodavatel

Hydrocarbons, C10, aromatics, >1% naphthalene

Parameter	Method	Value	Exposure time	Environment	Result	Source
		58 %	28 days	Fresh water	Easily biodegradable	

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics

Parameter	Method	Value	Exposure time	Environment	Result	Source
		80 %	28 days		Easily biodegradable	BL dodavatel

hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Parameter	Method	Value	Exposure time	Environment	Result	Source
	OECD 301F				Easily biodegradable	BL dodavatel

12.3. Bioaccumulative potential

Data for the mixture are not available.

(2-methoxymethylethoxy)propanol

Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]	Source
Log Pow	OECD 107	0.006				25°C	BL dodavatel

1-methoxy-2-propanol

Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]	Source
BCF		<2					BL dodavatel

2-methylpropan-1-ol

Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]	Source
Log Pow		1				25°C	BL dodavatel

12.4. Mobility in soil

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

2-methylpropan-1-ol			
Parameter	Value	Result	Source
Koc	2.1	High	BL dodavatele

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. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. 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

UN 1263

14.2. UN proper shipping name

PAINT

14.3. Transport hazard class(es)

3 Flammable liquids

14.4. Packing group

III

14.5. Environmental hazards

Yes.

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

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Additional information

Hazard identification No.

30

UN number

1263

Classification code

F1

Safety signs

3+ hazardous for the environment



Road transport - ADR

Special provisions

163, 367, 650

Limited quantities

5 L

Excepted quantities

E1

Packaging

Packing instructions

P001, IBC03, LP01, R001

Special packing provisions

PP1

Mixed packing provisions

MP19

Portable tanks and bulk containers

Guidelines

T2

Special provisions

TP1, TP29

ADR tank

Tank code

LGBF

Vehicles for tank carriage

FL

Transport category

3

Tunnel restriction code

(D/E)

Special provision for

packages

V12

operation

S2

Railway transport - RID

Special provisions

163, 367, 650

Packaging

Packing instructions

P001, IBC03, LP01, R001

Special packing provisions

PP1

Mixed packing provisions

MP19

Portable tanks and bulk containers

Guidelines

T2

Special provisions

TP1, TP29

RID Tanks

Tank code

LGBF

Transport category

3

Special provision for

packages

W12

Air transport - ICAO/IATA

Packaging instructions for limited amount

Y344

Packaging instructions passenger

355

Cargo packaging instructions

366

Marine transport - IMDG

EmS (emergency plan)

F-E, S-E

MFAG

310

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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. 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).

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

EUH066	Repeated exposure may cause skin dryness or cracking.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312+H332	Harmful in contact with skin or if inhaled.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H372	Causes damage to the central nervous system through prolonged or repeated exposure.
H372	Causes damage to the central nervous system, the respiratory tract (inhalation) through prolonged or repeated exposure.
H373	May cause damage to the central nervous system, the respiratory tract (inhalation) through prolonged or repeated exposure.
H373	May cause damage to the central nervous system through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

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.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe vapors/aerosols.
P264	Wash hands/ stained body parts/ water and soap thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P314	Get medical advice/attention if you feel unwell.
P370+P378	In case of fire: Use foam (alcohol resistant), carbon dioxide, a spray mist, powder to extinguish.
P391	Collect spillage.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to by handing it over to a person authorized to dispose of waste or to a place designated by the municipality.

Other important information about human health protection

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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	European 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)
Asp. Tox.	Aspiration hazard
BCF	Bioconcentration Factor
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 ₅₀	Concentration of a substance when it is affected 50 % of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EL ₀	Effective Loading for 0 % of the tested organisms
EL ₅₀	Effective Loading for 50 % of the tested organisms
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
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
LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population
LL ₅₀	Lethal Loading for 50 % of tested organisms
LOAEL	Lowest observed adverse effect level
log K _{ow}	Octanol-water partition coefficient
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
NOELR	No Observed Effect Loading Rate
OEL	Occupational Exposure Limits
PBT	Persistent, bioaccumulative and toxic
PMT	Persistent, mobile and toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals

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RID	Agreement on the transport of dangerous goods by rail
Skin Irrit.	Skin irritation
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure
UN	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

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 7.0 replaces the SDS version from Friday, 18 October 2024. Changes were made in sections 2, 9, 11, 12, 13 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: Rozpouštědlová 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 +5 až 25°C
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 sušicích tunelech s odsáváním par	PROC2 použití v rámci nepřetržitého chemického výrobního procesu s příležitostnou kontrolovanou expozicí (např. odběr	Nevyžaduje další opatření na omezení rizik.

Dílčí pracovní činnost prováděná s výrobkem	Kategorie procesu	Požadované doplňující opatření
	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 vzduchu 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 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.

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 rekuperace rozpouštědel z odpadního vzduchu nebo jinými 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, REC8d

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 +5 až 25°C s výjimkou sušení nebo vytvrzování filmu za zvýšené teploty
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 4hod./den bez potřeby dalších opatření, nebo používat ochranu dýchacích orgánů s filtrem typu A.
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: použití polomasky nebo masky s filtrem typu A/P2.
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: používat ochranu dýchacích orgánů s filtrem typu A.
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 vzduch 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 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 dobře větraných skladech nebo ve venkovním prostředí. Odpady zajistit proti úniku do vody a půdy. Uvnitř: dobré větrání (3 – 5 výměn vzduch 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 vodohospodářským orgánem.
Odstraňování odpadů	Odpady barvy a materiálů znečištěných barvou odstraňovat ve spolupráci s osobami oprávněnými k nakládání s odpady.