

		SAFETY DATA SHEET according to Regulation (EC) No 1907/2006 (REACH) as amended			
S2819 acrylic paint on concrete and asphalt surfaces, matt SILAMAT					
Creation date		26th February 2024		Version	
Revision date				1.0	

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

1.1. Product identifier

S2819 acrylic paint on concrete and asphalt surfaces, matt SILAMAT mixture
 S2819-: A-C...; A-R...; AXC...; AXR...
 UFI JYWF-SXSU-H00D-X67P
 Other mixture names

S2819 Akrylátová barva na betonové a asfaltové plochy, mat SILAMAT

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

Mixture's intended use

SILAMAT S2819 paint is designed for tinted coatings of various concrete and asphalt surfaces in exterior and interior. E. g. on the floors of halls, garages, stores, children's and sports playgrounds, bike trails, parking etc.

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.

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. Veronika Chytilová
 E-mail chytilova@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. 2, H225
 Skin Irrit. 2, H315
 Skin Sens. 1A, H317
 STOT SE 3, H336
 Repr. 2, H361d
 STOT RE 2, H373
 Aquatic Chronic 2, H411

Most serious adverse physico-chemical effects

Highly flammable liquid and vapour.

Most serious adverse effects on human health and the environment

May cause damage to organs through prolonged or repeated exposure. Suspected of damaging the unborn child. Causes skin irritation. May cause an allergic skin reaction. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects.

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2.2. Label elements

Hazard pictogram



Signal word

Danger

Hazardous substances

toluene

2-methoxy-1-methylethyl acetate

Fatty acids, C14-18 and C16-18-unsatd., maleated

acrylic block copolymer

maleic anhydride

Hazard statements

H225

Highly flammable liquid and vapour.

H315

Causes skin irritation.

H317

May cause an allergic skin reaction.

H336

May cause drowsiness or dizziness.

H361d

Suspected of damaging the unborn child.

H373

May cause damage to organs 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.

P201

Obtain special instructions before use.

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260

Do not breathe vapours/spray.

P271

Use only outdoors or in a well-ventilated area.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352

IF ON SKIN: Wash with plenty of water and soap.

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 over to a person authorized to dispose of waste or a site designated by the town.

Supplemental information

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Density	1.19-1.52 g/cm ³ at 23 °C (manufacturer's methodology B5/TD1-5 (ČSN EN ISO 2811-2))
VOC	0,316 kg/kg
TOC	0,261 kg/kg
Dry matter	60 % volume
VOC limit value	cat. A (i) SB: 500 g/l
Max. VOC content in the product in its ready to use condition	420 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. The titanium dioxide contained contains < 1 % of 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

Dispersion of inorganic pigments and filling agents in a solution of acrylic resins in organic solvents.

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	36-50		
Index: 601-021-00-3 CAS: 108-88-3 EC: 203-625-9 Registration number: 01-2119471310-51	toluene	15-18	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Repr. 2 (**), H361d STOT RE 2 (**), H373	4, 5
Index: 022-006-00-2 CAS: 13463-67-7 EC: 236-675-5 Registration number: 01-2119489379-17	titanium dioxide	<10		1, 2, 3
Index: 607-195-00-7 CAS: 108-65-6 EC: 203-603-9 Registration number: 01-2119475791-29	2-methoxy-1-methylethyl acetate	≤9	Flam. Liq. 3, H226 STOT SE 3, H336	4
EC: 905-588-0 Registration number: 01-2119539452-40	Technical xylene (mixed with ethylbenzene)	≤6,2	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 % ATE Dermal = 1100 mg/kg bw ATE Inhalation (vapor) = 11 mg/l	4

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 607-025-00-1 CAS: 123-86-4 EC: 204-658-1 Registration number: 01-2119485493-29	n-butyl acetate	2-3,5	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	4
Index: 603-002-00-5 CAS: 64-17-5 EC: 200-578-6 Registration number: 01-2119457610-43	ethanol	2-3	Flam. Liq. 2, H225 Eye Irrit. 2, H319	
CAS: 1333-86-4 EC: 215-609-9 Registration number: 01-2119384822-32	carbon black	≤1,6		
EC: 918-668-5 Registration number: 01-2119455851-35	Hydrocarbons, C9, aromatic	<1	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H335, H336 Aquatic Chronic 2, H411 EUH066	6
CAS: 85711-46-2 EC: 288-306-2 Registration number: 01-2119978273-29	Fatty acids, C14-18 and C16-18-unsatd., maleated	0,21-0,31	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319	
CAS: 1259547-09-5	acrylic block copolymer	≤0,2	Skin Sens. 1, H317	
Index: 607-096-00-9 CAS: 108-31-6 EC: 203-571-6	maleic anhydride	0,004-0,006	Acute Tox. 4, H302 Skin Corr. 1B, H314 Skin Sens. 1A, H317 Eye Dam. 1, H318 Resp. Sens. 1, H334 STOT RE 1, H372 (the respiratory system) (inhalation) EUH071 Specific concentration limit: Skin Sens. 1A, H317: C ≥ 0.001 %	

Notes

** another exposure route cannot be ruled out

*** reproductive toxicity: supplementary letters specify whether fetal harm (d) or fertility harm (f) may occur

1 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.

2 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.

3 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.

4 A substance for which exposure limits are set.

5 The use of the substance is restricted by Annex XVII of REACH Regulation

6 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.

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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 drowsiness or dizziness.

If on skin

May cause an allergic skin reaction.

If in eyes

Not expected.

If swallowed

Irritation, nausea.

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. Highly 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.

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- 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. Contaminated work clothing should not be allowed out of the workplace. 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.

Content	Packaging type	Material of package
0,9 l	can / tin	FE
3,5 l	can / tin	FE
9 l	bucket	FE
5 kg	can / tin	FE
10 kg	bucket	FE
20 kg	bucket	FE

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

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European Union

Commission Directive 2000/39/EC

Substance name (component)	Type	Value	Note
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	OEL 8 hours	275 mg/m ³	Skin
	OEL 8 hours	50 ppm	
	OEL 15 minutes	550 mg/m ³	
	OEL 15 minutes	100 ppm	

European Union

Commission Directive 2006/15/EC

Substance name (component)	Type	Value	Note
toluene (CAS: 108-88-3)	OEL 8 hours	192 mg/m ³	Skin
	OEL 8 hours	50 ppm	
	OEL 15 minutes	384 mg/m ³	
	OEL 15 minutes	100 ppm	

European Union

Commission Directive 91/322/EEC

Substance name (component)	Type	Value	Note
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	

DNEL

2-methoxy-1-methylethyl acetate					
Workers / consumers	Route of exposure	Value	Effect	Value determination	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

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

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ethanol					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	950 mg/m ³	Chronic effects systemic		BL dodavatele
Workers	Dermal	343 mg/kg bw/day	Chronic effects systemic		BL dodavatele
Consumers	Inhalation	114 mg/m ³	Chronic effects systemic		echa
Consumers	Dermal	206 mg/kg bw/day	Chronic effects systemic		echa
Consumers	Oral	87 mg/kg bw/day	Chronic effects systemic		echa

Fatty acids, C14-18 and C16-18-unsatd., maleated					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Dermal	3.33 mg/kg bw/day	Chronic effects systemic		ECHA
Consumers	Dermal	1.67 mg/kg bw/day	Chronic effects systemic		ECHA
Consumers	Oral	1.67 mg/kg bw/day	Chronic effects systemic		ECHA

Hydrocarbons, C9, aromatic					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	150 mg/m ³	Chronic effects systemic		echa
Workers	Dermal	25 mg/kg bw/day	Chronic effects systemic		echa
Consumers	Inhalation	32 mg/m ³	Chronic effects systemic		echa
Consumers	Dermal	11 mg/kg bw/day	Chronic effects systemic		echa
Consumers	Oral	11 mg/kg bw/day	Chronic effects systemic		echa

maleic anhydride					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	0.19 mg/m ³	Chronic effects systemic		ECHA
Workers	Inhalation	0.8 mg/m ³	Acute effects systemic		ECHA
Consumers	Inhalation	0.05 mg/m ³	Chronic effects systemic		ECHA
Consumers	Inhalation	0.08 mg/m ³	Chronic effects local		ECHA
Consumers	Dermal	0.1 mg/kg bw/day	Chronic effects systemic		ECHA
Consumers	Oral	0.06 mg/kg bw/day	Chronic effects systemic		ECHA

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n-butyl acetate					
Workers / consumers	Route of exposure	Value	Effect	Value determination	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

Technical xylene (mixed with ethylbenzene)					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	221 mg/m ³	Chronic effects systemic		BL dodavatele
Workers	Inhalation	442 mg/m ³	Acute effects systemic		BL dodavatele
Workers	Dermal	212 mg/kg bw/day	Chronic effects systemic		BL dodavatele
Consumers	Inhalation	65.3 mg/m ³	Chronic effects local		BL dodavatele
Consumers	Dermal	125 mg/kg bw/day	Chronic effects systemic		BL dodavatele
Consumers	Oral	12.5 mg/kg bw/day	Chronic effects systemic		BL dodavatele
Workers	Inhalation	221 mg/m ³	Chronic effects local		BL dodavatele
Workers	Inhalation	442 mg/m ³	Acute effects local		BL dodavatele
Consumers	Inhalation	260 mg/m ³	Acute effects systemic		BL dodavatele
Consumers	Inhalation	260 mg/m ³	Acute effects local		BL dodavatele

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

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toluene					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	192 mg/m ³	Chronic effects systemic		BL dodavatele
Workers	Inhalation	192 mg/m ³	Chronic effects local		BL dodavatele
Workers	Inhalation	384 mg/m ³	Acute effects systemic		BL dodavatele
Workers	Inhalation	384 mg/m ³	Acute effects local		BL dodavatele
Workers	Dermal	384 mg/kg bw/day	Chronic effects systemic		BL dodavatele
Consumers	Inhalation	226 mg/m ³	Acute effects systemic		BL dodavatele
Consumers	Inhalation	226 mg/m ³	Acute effects local		BL dodavatele
Consumers	Dermal	226 mg/kg bw/day	Chronic effects systemic		BL dodavatele
Consumers	Inhalation	56.5 mg/m ³	Chronic effects systemic		BL dodavatele
Consumers	Oral	8.13 mg/kg bw/day	Chronic effects systemic		BL dodavatele
Consumers	Inhalation	56.5 mg/m ³	Chronic effects local		BL dodavatele

PNEC

2-methoxy-1-methylethyl acetate			
Route of exposure	Value	Value determination	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

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

ethanol			
Route of exposure	Value	Value determination	Source
Freshwater environment	0.96 mg/l		BL dodavatele
Marine water	0.79 mg/l		BL dodavatele
Water (intermittent release)	2.75 mg/l		echa
Microorganisms in sewage treatment	580 mg/l		BL dodavatele
Freshwater sediment	3.6 mg/kg of dry substance of sediment		echa

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ethanol			
Route of exposure	Value	Value determination	Source
Sea sediments	2.9 mg/kg of dry substance of sediment		echa
Soil (agricultural)	0.63 mg/kg		BL dodavatele
Food chain	380-720 mg/kg of food		echa

Fatty acids, C14-18 and C16-18-unsatd., maleated			
Route of exposure	Value	Value determination	Source
Microorganisms in sewage treatment	100 mg/l		ECHA

maleic anhydride			
Route of exposure	Value	Value determination	Source
Freshwater environment	75 µg/l		ECHA
Marine water	7.5 µg/l		ECHA
Water (intermittent release)	428.1 µg/l		ECHA
Microorganisms in sewage treatment	4.46 mg/l		ECHA
Freshwater sediment	60 µg/kg		ECHA
Sea sediments	6 µg/kg		ECHA
Soil (agricultural)	10 µg/kg		ECHA

n-butyl acetate			
Route of exposure	Value	Value determination	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	Value determination	Source
Freshwater environment	0.327 mg/l		BL dodavatele
Marine water	0.327 mg/l		BL dodavatele
Soil (agricultural)	2.31 mg/kg of dry substance of soil		BL dodavatele
Food chain	0.327 mg/l		BL dodavatele
Microorganisms in sewage treatment	6.58 mg/l		BL dodavatele
Sea sediments	12.46 mg/kg of dry substance of sediment		BL dodavatele
Freshwater sediment	12.46 mg/kg of dry substance of sediment		BL dodavatele

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titanium dioxide			
Route of exposure	Value	Value determination	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

toluene			
Route of exposure	Value	Value determination	Source
Freshwater environment	0.68 mg/l		BL dodavatele
Marine water	0.68 mg/l		BL dodavatele
Water (intermittent release)	0.68 mg/l		BL dodavatele
Microorganisms in sewage treatment	13.61 mg/l		echa
Freshwater sediment	16.39 mg/kg of dry substance of sediment		BL dodavatele
Sea sediments	16.39 mg/kg of dry substance of sediment		BL dodavatele
Soil (agricultural)	2.89 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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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Physical state	liquid
Colour	white, black, red, brown, blue, orange, grey, green, gold, mixture containing generic product identifier 'colorant', by shades
Odour	after organic solvents
Melting point/freezing point	data not available
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	-66 °C (BL dodavatele)
carbon black (CAS: 1333-86-4)	3652-3697 °C (BL dodavatele)
ethanol (CAS: 64-17-5)	-114.15 °C (BL dodavatele)
Hydrocarbons, C9, aromatic	<-30 °C (BL dodavatele)
maleic anhydride (CAS: 108-31-6)	51-53 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	-78 °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)
toluene (CAS: 108-88-3)	-95 °C (BL dodavatele)
Boiling point or initial boiling point and boiling range	data not available
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	145.8 °C (BL dodavatele)
ethanol (CAS: 64-17-5)	78.3 °C (BL dodavatele)
Hydrocarbons, C9, aromatic	140-200 °C (BL dodavatele)
maleic anhydride (CAS: 108-31-6)	202 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	124-126.5 °C (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	136.2-144.5 °C (BL dodavatele)
titanium dioxide (CAS: 13463-67-7)	3000 °C (BL dodavatele)
toluene (CAS: 108-88-3)	110.6 °C (BL dodavatele)
Flammability	Flammable liquid of risk class I (ČSN 65 0201)
ethanol (CAS: 64-17-5)	inflammable (BL dodavatele)
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)
toluene (CAS: 108-88-3)	Flammable liquid of risk class II (BL dodavatele)
Lower and upper explosion limit	
bottom	0.7 % (for Hydrocarbons, C9, aromatic)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	1.5 % (BL dodavatele)
ethanol (CAS: 64-17-5)	3.3 % (BL dodavatele)
Hydrocarbons, C9, aromatic	0.7 % (BL dodavatele)
maleic anhydride (CAS: 108-31-6)	1.4 % (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	1.2 % (literatura)
Technical xylene (mixed with ethylbenzene)	0.8 % (BL dodavatele)
toluene (CAS: 108-88-3)	1.3 % (BL dodavatele)
upper	19 % (for Ethanol)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	7.0 % (BL dodavatele)
ethanol (CAS: 64-17-5)	19 % (BL dodavatele)
Hydrocarbons, C9, aromatic	7 % (BL dodavatele)
maleic anhydride (CAS: 108-31-6)	7.1 % (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	7.6 % (literatura)
Technical xylene (mixed with ethylbenzene)	7 % (BL dodavatele)
toluene (CAS: 108-88-3)	6.7 % (BL dodavatele)
Flash point	6 °C (PND 67 3015)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	45 °C (BL dodavatele)
carbon black (CAS: 1333-86-4)	>600 °C (BL dodavatele)
ethanol (CAS: 64-17-5)	12.85 °C (BL dodavatele)
Hydrocarbons, C9, aromatic	>35 °C (BL dodavatele)
maleic anhydride (CAS: 108-31-6)	103 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	27 °C (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	18-32 °C (BL dodavatele)
toluene (CAS: 108-88-3)	4.4 °C (BL dodavatele)

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Auto-ignition temperature	data not available
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	333 °C (BL dodavatele)
carbon black (CAS: 1333-86-4)	>140 °C (BL dodavatele)
ethanol (CAS: 64-17-5)	362.85 °C (BL dodavatele)
Hydrocarbons, C9, aromatic	>400 °C (BL dodavatele)
maleic anhydride (CAS: 108-31-6)	475 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	415 °C (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	432-528 °C (BL dodavatele)
toluene (CAS: 108-88-3)	480 °C (BL dodavatele)
Decomposition temperature	data not available
limestone (CAS: 1317-65-3)	>600 °C (BL dodavatele)
maleic anhydride (CAS: 108-31-6)	>200 °C (BL dodavatele)
pH	non-soluble (in water)
carbon black (CAS: 1333-86-4)	6-11 (3% solution) (BL dodavatele)
ethanol (CAS: 64-17-5)	7 (undiluted at 20 °C) (BL dodavatele)
limestone (CAS: 1317-65-3)	8.5-10.5 (10% solution at 20 °C) (BL dodavatele)
maleic anhydride (CAS: 108-31-6)	0.8 (20% solution) (BL dodavatele)
Kinematic viscosity	>20.5 mm²/s at 40 °C
Kinematic viscosity	data not available
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	1.23 mm²/s at 40 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	0.83 mm²/s at 20 °C (BL dodavatele)
Solubility in water	Immiscible
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	247 g/l (BL dodavatele)
ethanol (CAS: 64-17-5)	789 000 mg/l při 20°C (BL dodavatele)
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)
Technical xylene (mixed with ethylbenzene)	146-190.7 mg/l při 25 °C (BL dodavatele)
titanium dioxide (CAS: 13463-67-7)	soluble (BL dodavatele)
toluene (CAS: 108-88-3)	573-587 mg/l při 25°C (BL dodavatele)
Partition coefficient n-octanol/water (log value)	LogPow -0.35 to 6 (for the substances contained)
n-butyl acetate (CAS: 123-86-4)	2.3 (BL dodavatele)
Vapour pressure	0.00002 hPa to 57.26 hPa at 20 °C (for the substances contained)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	355 at 20 °C (BL dodavatele)
ethanol (CAS: 64-17-5)	57.26 hPa at 19.65 °C (BL dodavatele)
Hydrocarbons, C9, aromatic	<1 kPa at 20 °C (BL dodavatele)
maleic anhydride (CAS: 108-31-6)	1.33 hPa at 44 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	11.6 hPa at 20 °C (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	650-944 Pa (BL dodavatele)
toluene (CAS: 108-88-3)	3088.9 Pa at 21.1 °C (BL dodavatele)
Density and/or relative density	
Density	1.19-1.52 g/cm³ at 23 °C (manufacturer's methodology B5/TD1-5 (ČSN EN ISO 2811-2))
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	0.964 g/cm³ at 25 °C (BL dodavatele)
carbon black (CAS: 1333-86-4)	1.7-1.9 g/cm³ at 20 °C (BL dodavatele)
ethanol (CAS: 64-17-5)	0.7844 g/cm³ at 25 °C (BL dodavatele)
Hydrocarbons, C9, aromatic	0.801-0.951 g/cm³ at 15 °C (BL dodavatele)
limestone (CAS: 1317-65-3)	2.4-2.9 g/cm³ (BL dodavatele)
maleic anhydride (CAS: 108-31-6)	1.32 g/cm³ at 55 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	0.8812 g/cm³ at 20 °C (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	0.862-0.88 g/cm³ at 25 °C (BL dodavatele)
toluene (CAS: 108-88-3)	0.866 g/cm³ at 20 °C (BL dodavatele)
Relative vapour density	data not available
Particle characteristics	data not available
Form	liquid: viscous

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9.2. Other information

Appearance	medium viscous liquid without extraneous impurities, the formation of a stirrable deposit, shellac and indentation of part of the binder is allowed (manufacturer's methodology B5/TD1-17 (ČSN EN ISO 1513))
Combustion temperature	18 °C (PND 65 6212)
Ignition temperature	410 °C (PND 33 0371)
Vapour density	> 1 (air = 1)
Molar weight	data not available
Hydrocarbons, C9, aromatic	125 g/mol (BL dodavatele)
maleic anhydride (CAS: 108-31-6)	98.06 g/mol (BL dodavatele)
Content of organic solvents (VOC)	0.316 kg/kg (calculation)
Total organic carbon (TOC)	0.261 kg/kg (calculation)
Solid content (dry matter)	60 % volume (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	420 g/l (calculation)
Flammability - temperature class: T2 (PND 33 0371); Calorific value: 17,52 MJ/kg (PND 65 6169); Heat of combustion: 18,71 MJ/kg (PND 65 6169).	

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		3703000 mg/kg				Calculation of value	
Dermal	ATE		21150 mg/kg				Calculation of value	
Inhalation (vapor)	ATE		211.5 mg/l				Calculation of value	

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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

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

ethanol								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		7060 mg/kg		Rat			BL dodavatele
Inhalation	LC ₅₀		117000-125000 mg/m ³	4 hours	Rat (Rattus norvegicus)			BL dodavatele
Dermal	LD ₅₀		>20000 mg/kg		Rabbit			BL dodavatele

Fatty acids, C14-18 and C16-18-unsatd., maleated								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		2000 mg/kg bw		Rat (Rattus norvegicus)			ECHA
Dermal	LD ₅₀		2000 mg/kg bw		Rat (Rattus norvegicus)			ECHA

Hydrocarbons, C9, aromatic								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀	OECD 401	>5000 mg/kg		Rat (Rattus norvegicus)			

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Hydrocarbons, C9, aromatic								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Dermal	LD ₅₀	OECD 402	>5000 mg/kg		Rabbit			
Inhalation (vapor)	LC ₀	OECD 403	>6193 mg/m ³	4 hours	Rat (Rattus norvegicus)			

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

maleic anhydride								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		1090 mg/kg bw		Rat (Rattus norvegicus)			ECHA
Inhalation	LC ₅₀		4.35 mg/l of air	60 minutes	Rat (Rattus norvegicus)			ECHA
Dermal	LD ₅₀		2620 mg/kg bw		Rabbit			ECHA

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

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
Dermal	ATE		1100 mg/kg bw					
Inhalation (vapor)	ATE		11 mg/l					

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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

toluene								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		5000 mg/kg bw					BL dodavatele
Inhalation	LC ₅₀		188 mg/l		Rat (Rattus norvegicus)			
Dermal	LD ₅₀		5000 mg/kg bw					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

Hydrocarbons, C9, aromatic					
Route of exposure	Result	Method	Exposure time	Species	Source
Dermal	Not irritating, Drying and cracking of the skin	OECD 404			

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.

2-methoxy-1-methylethyl acetate					
Route of exposure	Result	Method	Exposure time	Species	Source
Eye	Slightly irritating	OECD 405		Rabbit	BL dodavatele

Hydrocarbons, C9, aromatic					
Route of exposure	Result	Method	Exposure time	Species	Source
Eye	Not irritating	OECD 405		Rabbit	

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Respiratory or skin sensitisation

May cause an allergic skin reaction.

2-methoxy-1-methylethyl acetate						
Route of exposure	Result	Method	Exposure time	Species	Sex	Source
Dermal	Negative	OECD 406		Guinea-pig (Cavia aperea f. porcellus)		BL dodavatele

Hydrocarbons, C9, aromatic						
Route of exposure	Result	Method	Exposure time	Species	Sex	Source
Dermal	Not sensitizing	OECD 406		Guinea-pig (Cavia aperea f. porcellus)		

Germ cell mutagenicity

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.

Carcinogenicity

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	Parameter	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

toluene							
Route of exposure	Parameter	Value	Exposure time	Result	Species	Sex	Source
	NOAEC	4522 mg/m ³		Not carcinogenic			BL dodavatele

Reproductive toxicity

Suspected of damaging the unborn child.

Hydrocarbons, C9, aromatic							
Effect	Parameter	Value	Exposure time	Result	Species	Sex	Source
Effects on fertility	NOAEC	7500 mg/m ³	6 hours (5 days/week)	Negative	Rat (Rattus norvegicus)	F/M	

toluene							
Effect	Parameter	Value	Exposure time	Result	Species	Sex	Source
Developmental toxicity	Inhalačně	1000 ppm		Toxic for reproduction			BL dodavatele

Toxicity for specific target organ - single exposure

May cause drowsiness or dizziness. Data for the components of the mixture are not available.

Toxicity for specific target organ - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

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Repeated dose toxicity

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 dodavatel e

ethanol								
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL			9700 mg/kg bw/day		Mouse		echa
Inhalation	NOAEC			6.66 mg/l of air		Rat		echa

Fatty acids, C14-18 and C16-18-unsatd., maleated								
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL			1000 mg/kg bw/day		Rat (Rattus norvegicus)		ECHA

Hydrocarbons, C9, aromatic								
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL			600 mg/kg bw/day		Rat (Rattus norvegicus)		echa
Inhalation	NOAEC			900-1800 mg/m³ of air		Rat (Rattus norvegicus)		echa

maleic anhydride								
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL			10 mg/kg bw/day		Rat (Rattus norvegicus)		ECHA
Inhalation	NOAEC			3.3 mg/m³ of air		Rat (Rattus norvegicus)		ECHA

toluene								
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL			625 mg/kg bw/day		Rat (Rattus norvegicus)		echa
Inhalation	NOAEC			1.131 mg/l of air		Rat (Rattus norvegicus)		echa
Oral	NOAEL			625 mg/kg bw/day				BL dodavatel e
Inhalation	NOAEC			98 mg/m³				BL dodavatel e

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.

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11.2. Information on 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.

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects.

Acute toxicity

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

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

ethanol						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		>8140 mg/l	96 hours	Fish (Oncorhynchus mykiss)		BL dodavatel e
EC ₅₀		9268-14221 mg/l	48 hours	Crustaceans		BL dodavatel e
EC ₅₀		675-22000 mg/l	96 hours	Algae and other aquatic plants		echa
EC ₅₀		5.8 g/l	4 hours	Microorganisms (Photobacterium phosphoreum)		echa

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Fatty acids, C14-18 and C16-18-unsatd., maleated						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		1.17 mg/l	96 hours	Fish (Oncorhynchus mykiss)		ECHA
EC ₅₀		5.3 mg/l	48 hours	Aquatic invertebrates		ECHA
EC ₅₀		2.76 mg/l	72 hours	Algae and other aquatic plants		ECHA
EC ₅₀		1 g/l	3 hours	Microorganisms (Photobacterium phosphoreum)		ECHA

Hydrocarbons, C9, aromatic						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀	OECD 203	9.2 mg/l	96 hours	Fish (Oncorhynchus mykiss)	Fresh water	
EC ₅₀	OECD 202	3.2 mg/l	48 hours	Daphnia (Daphnia magna)	Fresh water	
EC ₅₀	OECD 201	2.9 mg/l	72 hours	Algae and other aquatic plants (Pseudokirchneriella subcapitata)	Fresh water	
NOEC	OECD 201	0.07 mg/l	72 hours	Algae and other aquatic plants (Pseudokirchneriella subcapitata)	Fresh water	

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

maleic anhydride						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		75 mg/l	96 hours	Fish (Oncorhynchus mykiss)		ECHA
EC ₅₀		42.81 mg/l	48 hours	Aquatic invertebrates		ECHA
EC ₅₀		74.35 mg/l	72 hours	Algae and other aquatic plants		ECHA
EC ₅₀		12.5 mg/l	15 minutes	Microorganisms (Photobacterium phosphoreum)		ECHA

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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
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

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
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

toluene						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		5.5 mg/l	96 hours	Fish (Oncorhynchus mykiss)		BL dodavatel e
EC ₅₀		3.78 mg/l	48 hours	Invertebrates	Fresh water	BL dodavatel e

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toluene						
Parameter	Method	Value	Exposure time	Species	Environment	Source
EC ₅₀		134 mg/l	3 hours	Algae (Chlorella vulgaris)	Fresh water	BL dodavatel e
EC ₅₀		84 mg/l	24 hours	Microorganisms (Photobacterium phosphoreum)		BL dodavatel e

Chronic toxicity

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

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

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

toluene						
Parameter	Method	Value	Exposure time	Species	Environment	Source
NOEC		1.4 mg/l	40 days	Fish (Pimephales promelas)		BL dodavatel e
NOEC		0.74 mg/l	7 days	Invertebrates	Fresh water	BL dodavatel e
NOEC		10 mg/l		Algae	Fresh water	BL dodavatel e

12.2. Persistence and degradability

Data for the mixture are not available.

Biodegradability

ethanol						
Parameter	Method	Value	Exposure time	Environment	Result	Source
		94 %				BL dodavatel e

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ethanol						
Parameter	Method	Value	Exposure time	Environment	Result	Source
CHSK		2.08 mg/kg				BL dodavatel e
BSK ₅		1.46 mg/kg				BL dodavatel e

Hydrocarbons, C9, aromatic						
Parameter	Method	Value	Exposure time	Environment	Result	Source
Biologická odbouratelnost - aerobní	OECD 301F	78 %	28 days		Easily biodegradable	

- 12.3.
 Bioaccumulative potential

No data are available for either the mixture or the components.
- 12.4.
 Mobility in soil

No data are available for either the mixture or the components.
- 12.5.
 Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.
- 12.6.
 Endocrine disrupting properties

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.
- 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. Proceed in accordance with valid regulations on waste disposal. 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

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14.4. Packing group

II

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

Additional information

Hazard identification No.

33

UN number

1263

Classification code

F1

Safety signs

3+dangerous for the environment



Road transport - ADR

Special provisions

163, 367, 640D, 650

Limited quantities

5 L

Excepted quantities

E2

Packaging

Packing instructions

P001, IBC02, R001

Special packing provisions

PP1

Mixed packing provisions

MP19

Portable tanks and bulk containers

Guidelines

T4

Special provisions

TP1, TP8, TP28

ADR tank

Tank code

LGBF

Vehicles for tank carriage

FL

Transport category

2

Tunnel restriction code

(D_E)

Special provision for

operation

S2, S20

Railway transport - RID

Special provisions

163, 367, 640D, 650

Excepted quantities

E2

Packaging

Packing instructions

P001, IBC02, R001

Special packing provisions

PP1

Mixed packing provisions

MP19

Portable tanks and bulk containers

Guidelines

T4

Special provisions

TP1, TP8, TP28

RID Tanks

Tank code

LGBF

Transport category

2

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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

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).

National regulations (Germany)

WGK Water hazard class: WGK 2 - obviously hazardous to water

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

toluene

Restriction	Conditions of restriction
48	Shall not be placed on the market, or used, as a substance or in mixtures in a concentration equal to or greater than 0,1 % by weight where the substance or mixture is used in adhesives or spray paints intended for supply to the general public.

15.2. Chemical safety assessment

not available

SECTION 16: Other information

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

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
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.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to the respiratory system through prolonged or repeated exposure if inhaled.
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.
H411	Toxic to aquatic life with long lasting effects.
H312+H332	Harmful in contact with skin or if inhaled.

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.
P201	Obtain special instructions before use.

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P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
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 over to a person authorized to dispose of waste or a site designated by the town.

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

EUH066	Repeated exposure may cause skin dryness or cracking.
EUH071	Corrosive to the respiratory tract.

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

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
BOD	Biochemical oxygen demand
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
COD	Chemical oxygen demand
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
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
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
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

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NOEC	No observed effect concentration
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
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

Acute Tox.	Acute toxicity
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Asp. Tox.	Aspiration hazard
Eye Dam.	Serious eye damage
Flam. Liq.	Flammable liquid
Repr.	Reproductive toxicity
Resp. Sens.	Respiratory sensitization
Skin Corr.	Skin corrosion
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure

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.

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.