

U2008 polyurethane two-component anticorrosive primer AXAPUR PRIMER

Creation date	10th October 2016	Version	2.0
Revision date	31st August 2021		

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

1.1. Product identifier

Substance / mixture	U2008 polyurethane two-component anticorrosive primer
Number	AXAPUR PRIMER
UFI	mixture
Other mixture names	U2008-: A-C..., Z1C..., Z1R..., Z2R.... 82QV-F0V7-8107-4DUM U2008 Polyuretanová dvousložková antikoroční základní barva AXAPUR PRIMER

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

Mixture's intended use

The paint U 2008 is used for priming coats of steel products, zinc coated steel (including fresh heat zinc coated materials), aluminium and light metals.

Mixture uses advised against

The product should not be used in ways other than those referred in Section 1.

Main intended use

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

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. 3, H226
Skin Irrit. 2, H315
Eye Irrit. 2, H319
STOT SE 3, H336
STOT RE 2, H373 (central nervous system)
Aquatic Chronic 2, H411

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

Most serious adverse physico-chemical effects

Flammable liquid and vapour.

Most serious adverse effects on human health and the environment

May cause damage to the central nervous system through prolonged or repeated exposure. Causes skin irritation. Causes serious eye irritation. 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

Warning

Hazardous substances

n-butyl acetate

Technical xylene (mixed with ethylbenzene)

Hazard statements

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to the central nervous system 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 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.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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

EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
EUH066	Repeated exposure may cause skin dryness or cracking.

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Density	1,07-1,76 g/cm ³ at 23 °C (ČSN EN ISO 2811-1, DIN 53 217/3)
VOC	0,382 kg/kg
TOC	0,307 kg/kg
Dry matter	60-90 % volume
VOC limit value	cat. A (j) SB: 500 g/l
Max. VOC content in the product in its ready to use condition	495 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.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

U2008 paint is a dispersion of pigments and fillers in a solution of synthetic resins in organic solvents with the addition of additives. 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
Index: 022-006-00-2 CAS: 13463-67-7 EC: 236-675-5 Registration number: 01-2119489379-17	titanium dioxide	≤22,8	Carc. 2, H351 (inhalation)	1, 2, 3
Index: 607-025-00-1 CAS: 123-86-4 EC: 204-658-1 Registration number: 01-2119485493-29	n-butyl acetate	≤18,8	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	4
EC: 905-588-0 Registration number: 01-2119539452-40	Technical xylene (mixed with ethylbenzene)	12-14,6	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, 6
CAS: 14807-96-6 EC: 238-877-9	talc (Mg ₃ H ₂ (SiO ₃) ₄)	10-13	not classified as dangerous	
CAS: 1317-65-3 EC: 215-279-6	limestone	7-10,8		
Index: 030-011-00-6 CAS: 7779-90-0 EC: 231-944-3 Registration number: 01-2119485044-40-XXXX	trizinc bis(orthophosphate)	5,9-9,3	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	



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



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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 607-195-00-7 CAS: 108-65-6 EC: 203-603-9 Registration number: 01-2119475791-29	2-methoxy-1-methylethyl acetate	6,5-8,5	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	0,15-0,49	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	
CAS: 112926-00-8 EC: 601-214-2	amorphous precipitated silica	≤0,30	not classified as dangerous	
CAS: 60580-61-2 EC: 262-309-9 Registration number: 01-2120768444-47	zinc-5-nitroisophthalate	≤0,25	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 2, H411	
Index: 601-021-00-3 CAS: 108-88-3 EC: 203-625-9 Registration number: 01-2119471310-51	toluene	<0,1	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

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.
- Substance with a Union workplace exposure limit.
- The use of the substance is restricted by Annex XVII of REACH Regulation
- 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.

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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

Cough, headache. May cause drowsiness or dizziness.

If on skin

Causes skin irritation.

If in eyes

Causes serious eye irritation.

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. 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 aerosols. Prevent contact with skin and eyes.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

See the Section 7, 8 and 13.

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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 aerosols. 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.

Storage class

3A - Flammable liquids (flash point below 55 °C)

Storage temperature

5 till 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 2000/39/EC

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	
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	

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European Union

Commission Directive 91/322/EEC

Substance name (component)	Type	Value	Note
Technical xylene (mixed with ethylbenzene)	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	Determining method	Source
Workers	Inhalation	275 mg/m ³	Systemic chronic effects		BL dodavatele
Workers	Dermal	796 mg/kg bw/day	Systemic chronic effects		BL dodavatele
Consumers	Inhalation	33 mg/m ³	Systemic chronic effects		BL dodavatele
Consumers	Dermal	320 mg/kg bw/day	Systemic chronic effects		BL dodavatele
Consumers	Oral	36 mg/kg bw/day	Systemic chronic effects		BL dodavatele

n-butyl acetate

Workers / consumers	Route of exposure	Value	Effect	Determining method	Source
Workers	Inhalation	600 mg/m ³	Local acute effects		BL dodavatele
Consumers	Inhalation	300 mg/m ³	Local acute effects		BL dodavatele
Workers	Inhalation	300 mg/m ³	Local chronic effects		BL dodavatele
Consumers	Inhalation	35.7 mg/m ³	Local chronic effects		BL dodavatele
Workers	Dermal	11 mg/kg	Systemic chronic effects		BL dodavatele
Workers	Dermal	11 mg/kg	Systemic acute effects		BL dodavatele
Consumers	Dermal	6 mg/kg	Systemic chronic effects		BL dodavatele
Consumers	Dermal	6 mg/kg	Systemic acute effects		BL dodavatele
Consumers	Oral	2 mg/kg	Systemic chronic effects		BL dodavatele
Consumers	Oral	2 mg/kg	Systemic acute effects		BL dodavatele

Technical xylene (mixed with ethylbenzene)

Workers / consumers	Route of exposure	Value	Effect	Determining method	Source
Workers	Inhalation	77 mg/m ³	Systemic chronic effects		ECHA
Workers	Inhalation	289 mg/m ³	Local acute effects		ECHA
Workers	Dermal	180 mg/kg bw/day	Systemic chronic effects		ECHA
Consumers	Inhalation	14.8 mg/m ³	Systemic chronic effects		ECHA
Consumers	Dermal	108 mg/kg bw/day	Systemic chronic effects		ECHA
Consumers	Oral	1.6 mg/kg bw/day	Systemic chronic effects		ECHA

titanium dioxide

Workers / consumers	Route of exposure	Value	Effect	Determining method	Source
	Inhalation	10 mg/m ³	Local chronic effects		BL dodavatele

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toluene

Workers / consumers	Route of exposure	Value	Effect	Determining method	Source
Workers	Inhalation	192 mg/m ³	Systemic chronic effects		BL dodavatele
Workers	Inhalation	192 mg/m ³	Local chronic effects		BL dodavatele
Workers	Inhalation	384 mg/m ³	Systemic acute effects		BL dodavatele
Workers	Inhalation	384 mg/m ³	Local acute effects		BL dodavatele
Workers	Dermal	384 mg/kg bw/day	Systemic chronic effects		BL dodavatele
Consumers	Inhalation	226 mg/m ³	Systemic acute effects		BL dodavatele
Consumers	Inhalation	226 mg/m ³	Local acute effects		BL dodavatele
Consumers	Dermal	226 mg/kg bw/day	Systemic chronic effects		BL dodavatele
Consumers	Inhalation	56.5 mg/m ³	Systemic chronic effects		BL dodavatele
Consumers	Oral	8.13 mg/kg bw/day	Systemic chronic effects		BL dodavatele
Consumers	Inhalation	56.5 mg/m ³	Local chronic effects		BL dodavatele

triazin bis(orthophosphate)

Workers / consumers	Route of exposure	Value	Effect	Determining method	Source
Workers	Inhalation	5 mg/m ³	Systemic chronic effects		BL dodavatele
Workers	Dermal	83 mg/kg bw/day	Systemic chronic effects		BL dodavatele
Consumers	Inhalation	2.5 mg/m ³	Systemic chronic effects		BL dodavatele
Consumers	Dermal	83 mg/kg bw/day	Systemic chronic effects		BL dodavatele
Consumers	Oral	0.83 mg/kg bw/day	Systemic chronic effects		BL dodavatele

zinc oxide

Workers / consumers	Route of exposure	Value	Effect	Determining method	Source
Workers	Inhalation	5 mg/m ³	Systemic chronic effects		BL dodavatele
Workers	Dermal	83 mg/kg bw/day	Systemic chronic effects		BL dodavatele
Consumers	Inhalation	2.5 mg/m ³	Systemic chronic effects		BL dodavatele
Consumers	Dermal	83 mg/kg bw/day	Systemic chronic effects		BL dodavatele
Consumers	Oral	830 µg/kg	Systemic chronic effects		BL dodavatele
Workers	Inhalation	0.5 mg/m ³	Local chronic effects		BL dodavatele

PNEC

2-methoxy-1-methylethyl acetate

Route of exposure	Value	Determining method
Freshwater environment	0.635 mg/l	
Seawater	0.0635 mg/l	
Microorganisms in wastewater treatment plants	100 mg/l	
Freshwater sediment	3.29 mg/kg of dry substance of sediment	
Sea sediments	0.329 mg/kg of dry substance of sediment	
Soil (agricultural)	0.29 mg/kg of dry substance of soil	

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n-butyl acetate

Route of exposure	Value	Determining method
Freshwater environment	0.18 mg/l	
Seawater	0.018 mg/l	
Water (intermittent release)	0.36 mg/l	
Microorganisms in wastewater treatment plants	35.6 mg/l	
Freshwater sediment	0.981 mg/kg	
Sea sediments	0.0981 mg/kg	
Soil (agricultural)	0.0903 mg/kg	

Technical xylene (mixed with ethylbenzene)

Route of exposure	Value	Determining method
Freshwater environment	327 µg/l	
Seawater	327 µg/l	
Soil (agricultural)	2.31 mg/kg of dry substance of soil	
Food chain	327 µg/l	
Microorganisms in wastewater treatment plants	6.58 mg/l	
Sea sediments	12.46 mg/kg of dry substance of sediment	
Freshwater sediment	12.46 mg/kg of dry substance of sediment	

titanium dioxide

Route of exposure	Value	Determining method
Freshwater environment	0.127 mg/l	
Seawater	1 mg/l	
Water (intermittent release)	0.61 mg/l	
Freshwater sediment	1000 mg/kg	
Sea sediments	100 mg/kg	
Soil (agricultural)	100 mg/kg	
Microorganisms in wastewater treatment plants	100 mg/l	
Food chain	1667 mg/kg	

toluene

Route of exposure	Value	Determining method
Freshwater environment	0.68 mg/l	
Seawater	0.68 mg/l	
Water (intermittent release)	0.68 mg/l	
Microorganisms in wastewater treatment plants	13.61 mg/l	
Freshwater sediment	16.39 mg/kg of dry substance of sediment	
Sea sediments	16.39 mg/kg of dry substance of sediment	
Soil (agricultural)	2.89 mg/kg of dry substance of soil	

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trizinc bis(orthophosphate)

Route of exposure	Value	Determining method
Freshwater environment	20.6 µg/l	
Seawater	6.1 µg/l	
Microorganisms in wastewater treatment plants	100 µg/l	
Freshwater sediment	117.8 mg/kg of dry substance of sediment	
Sea sediments	56.5 mg/kg of dry substance of sediment	
Soil (agricultural)	35.6 mg/kg of dry substance of soil	

zinc oxide

Route of exposure	Value	Determining method
Freshwater environment	20.6 µg/l	
Seawater	6.1 µg/l	
Microorganisms in wastewater treatment plants	100 µg/l	
Freshwater sediment	117.8 mg/kg of dry substance of sediment	
Sea sediments	56.5 mg/kg of dry substance of sediment	
Soil (agricultural)	35.6 mg/kg of dry substance of soil	

zinc-5-nitroisophthalate

Route of exposure	Value	Determining method
Drinking water	20.6-80.8 µg/l	
Seawater	6.1-23.9 µg/l	
Microorganisms in wastewater treatment plants	100-392.2 µg/l	
Freshwater sediment	117.8-462 mg/kg	
Sea sediments	56.5-221 mg/kg	

8.2. Exposure controls

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. 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.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	mixture containing generic product identifier 'colorant' (select all relevant colours), 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)
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (CAS: 64742-82-1)	-73 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	-78 °C (BL dodavatele)
Reaction mass of Octadecanamide, 12-hydroxy-N-[2-[(1-oxodecyl)amino]ethyl]- and N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and Decanamide, N,N'-1,2-ethanediybis-	117-127 °C (BL dodavatele)
talca (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)
toluene (CAS: 108-88-3)	-95 °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-methoxy-1-methylethyl acetate (CAS: 108-65-6)	145,8 °C (BL dodavatele)
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (CAS: 64742-82-1)	155-194 °C (BL dodavatele)
limestone (CAS: 1317-65-3)	1300 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	124-126,5 °C (BL dodavatele)
Reaction mass of Octadecanamide, 12-hydroxy-N-[2-[(1-oxodecyl)amino]ethyl]- and N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and Decanamide, N,N'-1,2-ethanediybis-	>250 °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 II (ČSN 65 0201)
n-butyl acetate (CAS: 123-86-4)	hořlavý (odvozeno od bodu vzplanutí)
Technical xylene (mixed with ethylbenzene)	hořlavý (BL dodavatele)
toluene (CAS: 108-88-3)	hořlavá kapalina II. třídy nebezpečnosti (BL dodavatele)
trizinc bis(orthophosphate) (CAS: 7779-90-0)	Produkt není hořlavý. nehořlavý (BL dodavatele)
Lower and upper explosion limit	
bottom	0,7 % (for hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%))
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	1,5 % (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)
toluene (CAS: 108-88-3)	1,3 % (BL dodavatele)
upper	7,6 % (for N-butyl acetate)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	7,0 % (BL dodavatele)
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)
toluene (CAS: 108-88-3)	6,7 % (BL dodavatele)
Flash point	26,5 °C (PND EN 456)

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2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	45 °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)		
Technical xylene (mixed with ethylbenzene)	18-32 °C (BL dodavatele)		
toluene (CAS: 108-88-3)	4,4 °C (BL dodavatele)		
Auto-ignition temperature	data not available		
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	333 °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)		
Reaction mass of Octadecanamide, 12-hydroxy-N-[2-(1-oxodecyl)amino]ethyl]- and N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and Decanamide, N,N'-1,2-ethanedylbis-	>400 °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		
Reaction mass of Octadecanamide, 12-hydroxy-N-[2-(1-oxodecyl)amino]ethyl]- and N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and Decanamide, N,N'-1,2-ethanedylbis-	>250 °C (BL dodavatele)		
talc (Mg3H2(SiO3)4) (CAS: 14807-96-6)	>1000 °C (BL dodavatele)		
pH	non-soluble (in water)		
amorphous precipitated silica (CAS: 112926-00-8)	5,2-7,5 (0,005% solution) (BL dodavatele)		
limestone (CAS: 1317-65-3)	9-10 (undiluted) (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		
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	not miscible		
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	247 g/l (BL dodavatele)		
n-butyl acetate (CAS: 123-86-4)	5,3 g/l při 20 °C (pH 6) (BL dodavatele)		
Reaction mass of Octadecanamide, 12-hydroxy-N-[2-(1-oxodecyl)amino]ethyl]- and N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and Decanamide, N,N'-1,2-ethanedylbis-	0,021 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)	rozpustný (BL dodavatele)		
toluene (CAS: 108-88-3)	573-587 mg/l při 25°C (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)	0.56 till more than 4 (for the substances contained)		
Vapour pressure	2 hPa till 355 hPa at 20 °C (for the substances contained)		
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	355 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)	11,6 hPa at 20 °C (BL dodavatele)		
Reaction mass of Octadecanamide, 12-hydroxy-N-[2-(1-oxodecyl)amino]ethyl]- and N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and Decanamide, N,N'-1,2-ethanedylbis-	0,00004 Pa at 25 °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)		

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trizinc bis(orthophosphate) (CAS: 7779-90-0)	<1 hPa (BL dodavatele)		
Density and/or relative density			
Density	1,07-1,76 g/cm ³ at 23 °C (ČSN EN ISO 2811-1, DIN 53 217/3)		
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	0,964 g/cm ³ at 25 °C (BL dodavatele)		
amorphous precipitated silica (CAS: 112926-00-8)	2,1 g/cm ³ (BL dodavatele)		
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (CAS: 64742-82-1)	0,79 g/cm ³ at 15 °C (BL dodavatele)		
n-butyl acetate (CAS: 123-86-4)	0,8812 g/cm ³ at 20 °C (BL dodavatele)		
Reaction mass of Octadecanamide, 12-hydroxy-N-[2-[(1-oxodecyl)amino]ethyl]- and N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and Decanamide, N,N'-1,2-ethanediybis-	0,929 g/cm ³ at 20 °C (BL dodavatele)		
talc (Mg3H2(SiO3)4) (CAS: 14807-96-6)	2,58-2,83 g/cm ³ (BL dodavatele)		
Technical xylene (mixed with ethylbenzene)	0,862-0,88 g/cm ³ at 25 °C (BL dodavatele)		
toluene (CAS: 108-88-3)	0,866 g/cm ³ at 20 °C (BL dodavatele)		
trizinc bis(orthophosphate) (CAS: 7779-90-0)	3,3-3,7 g/cm ³ (BL dodavatele)		
zinc oxide (CAS: 1314-13-2)	5,68 g/cm ³ at 22 °C (BL dodavatele)		
zinc-5-nitroisophthalate (CAS: 60580-61-2)	2,2 g/cm ³ at 20 °C (ECHA)		
Form	liquid, moderately viscous paint without foreign mechanical impurities, the formation of easily dispersible sediment is allowed		
9.2. Other information			
Ignition temperature	425 °C (PND 33 0371)		
Combustion temperature	41 °C (PND 65 6212)		
Content of organic solvents (VOC)	0,382 kg/kg (calculation)		
Total organic carbon (TOC)	0,307 kg/kg (calculation)		
Solid content (dry matter)	60-90 % volume (ČSN EN ISO 3251; B5/TD1-12B)		
VOC limit value	cat. A (j) SB: 500 g/l		
Max. VOC content in the product in its ready to use condition	495 g/l (calculation)		
Flammability - temperature class: T2 (PND 33 0371); Calorific value: 17,25 MJ/kg (PND 65 6169); Heat of combustion: 18,28 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.

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Acute toxicity

Based on available data the classification criteria are not met.

2-methoxy-1-methylethyl acetate

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Source
Oral	LD50		5000 mg/kg		Rat (Rattus norvegicus)		BL dodavatel e
Inhalation	LC 0		>23.5 mg/l	6 hour	Rat (Rattus norvegicus)		BL dodavatel e
Dermal	LD50		5000 mg/kg		Rat (Rattus norvegicus)		BL dodavatel e

limestone

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Source
Oral	LD50		5000 mg/kg		Rat		výrobce

n-butyl acetate

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Source
Oral	LD50		10736 mg/kg		Rat (Rattus norvegicus)		BL dodavatel e
Inhalation	LC50	OECD 403	>21.1 mg/l	4 hour	Rat (Rattus norvegicus)		BL dodavatel e
Dermal	LD50		>14000 mg/kg		Rabbit		BL dodavatel e
Inhalation	LC 0		>38.32 mg/l	6 hour	Rat (Rattus norvegicus)		BL dodavatel e

Technical xylene (mixed with ethylbenzene)

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Source
Oral	LD50		3523 mg/kg bw		Rat		ECHA
Inhalation (vapor)	LD50		6350 ppm	4 hour	Rat		ECHA
Dermal	LD50		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	Time of exposure	Species	Sex	Source
Oral	LD50		>5000 mg/kg				BL dodavatel e
Inhalation	LC50		>6.82 mg/l of air				BL dodavatel e

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toluene

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Source
Oral	LD50		5000 mg/kg bw				BL dodavatel e
Inhalation	LC50		25.7 mg/l of air	4	Rat		echa
Dermal	LD50		5000 mg/kg bw				BL dodavatel e

trizinc bis(orthophosphate)

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Source
Oral	LD50		>5000 mg/kg bw/day		Rat		BL dodavatel e
Inhalation	LC50		>5.7 mg/l	4 hour	Rat		BL dodavatel e

zinc oxide

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Source
Oral	LD50		>5000 mg/kg		Rat (Rattus norvegicus)		BL dodavatel e
Inhalation (aerosols)	LC50		>5.7 mg/l	4 hour	Rat (Rattus norvegicus)		BL dodavatel e
Dermal	LD50		>2000 mg/kg bw		Rat (Rattus norvegicus)		BL dodavatel e

zinc-5-nitroisophthalate

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Source
Oral	LD50		>10000 mg/kg		Rat		BL dodavatel e

Skin corrosion/irritation

Causes skin irritation.

talC (Mg3H2(SiO3)4)

Route of exposure	Result	Time of exposure	Species	Source
		3 day	Human	výrobce

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

Germ cell mutagenicity

Based on available data the classification criteria are not met.

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Carcinogenicity

Based on available data the classification criteria are not met.

toluene

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

Reproductive toxicity

Based on available data the classification criteria are not met.

toluene

Effect	Parameter	Value	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.

Toxicity for specific target organ - repeated exposure

May cause damage to the central nervous system through prolonged or repeated exposure.

Repeated dose toxicity

2-methoxy-1-methylethyl acetate

Route of exposure	Parameter	Result	Value	Time of exposure	Species	Sex	Source
Inhalation	NOAEL		1000 ppm		Rat		echa
Dermal	NOAEL		1000-1838 mg/kg bw/day		Rabbit		echa

toluene

Route of exposure	Parameter	Result	Value	Time of exposure	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 dodavatele
Inhalation	NOAEC		98 mg/m ³				BL dodavatele

trizinc bis(orthophosphate)

Route of exposure	Parameter	Result	Value	Time of exposure	Species	Sex	Source
Oral	NOAEL		31.52 mg/kg bw/day		Rat		echa

zinc oxide

Route of exposure	Parameter	Result	Value	Time of exposure	Species	Sex	Source
Oral	NOAEL		31.52 mg/kg bw/day		Rat (Rattus norvegicus)		echa

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zinc oxide

Route of exposure	Parameter	Result	Value	Time of exposure	Species	Sex	Source
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

Based on available data the classification criteria are not met.

11.2. Information on other hazards

not available

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

Toxic to aquatic life with long lasting effects.

2-methoxy-1-methylethyl acetate

Parameter	Method	Value	Time of exposure	Species	Environment	Source
LC50		134 mg/l	96 hour	Fishes (Oncorhynchus mykiss)		BL dodavatel e
EC50		408 mg/l	48 hour	Daphnia (Daphnia magna)		BL dodavatel e
EC50		500 mg/l	48 hour	Aquatic invertebrates		echa
ErC50	OECD 201	>1000 mg/l	96 hour	Algae (Selenastrum capricornutum)		BL dodavatel e
EC 10		1 g/l	30 min	Microorganisms (Photobacterium phosphoreum)		echa

amorphous precipitated silica

Parameter	Method	Value	Time of exposure	Species	Environment	Source
NOEC		>1000 ppm	24 hour	Daphnia (Daphnia magna)		BL dodavatel e
NOEC		>10000 ppm	96 hour	Fishes (Oncorhynchus mykiss)		BL dodavatel e

limestone

Parameter	Method	Value	Time of exposure	Species	Environment	Source
LC50		10000 mg/l	96 hour	Fishes (Oncorhynchus mykiss)		
LC50		1000 mg/l	48 hour	Invertebrates		výrobce
LC50		200 mg/l	72 hour	Algae (Selenastrum capricornutum)		výrobce

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n-butyl acetate

Parameter	Method	Value	Time of exposure	Species	Environment	Source
LC50		18 mg/l	96 hour	Fishes (Pimephales promelas)		BL dodavatel
EC50		44 mg/l	48 hour	Aquatic invertebrates (Daphnia sp.)		BL dodavatel
EC50		397 mg/l	72 hour	Algae and other aquatic plants (Pseudokirchneriella subcapitata)		BL dodavatel
EC50		356 mg/l	40 hour	Microorganisms (Tetrahymena pyriformis)		BL dodavatel
EC50	OECD 208	>1000 mg/kg	14 day	Algae (Selenastrum capricornutum)		BL dodavatel

talc (Mg₃H₂(SiO₃)₄)

Parameter	Method	Value	Time of exposure	Species	Environment	Source
LC50		>100000 mg/l	24 hour	Fishes (Oncorhynchus mykiss)		výrobce
LC50		94983.781 mg/kg	48 hour	Crustaceans		výrobce
LC50		48545.539 mg/l		Algae (Selenastrum capricornutum)		výrobce

Technical xylene (mixed with ethylbenzene)

Parameter	Method	Value	Time of exposure	Species	Environment	Source
EC50		96 mg/l	24 hour	Microorganisms (Photobacterium phosphoreum)		ECHA
EC50		2.2 mg/l	73 hour	Algae (Selenastrum capricornutum)		ECHA
IC50		1 mg/l	24 hour	Aquatic invertebrates		ECHA
LC50		2.6 mg/l	4 day	Fishes (Oncorhynchus mykiss)		ECHA

titanium dioxide

Parameter	Method	Value	Time of exposure	Species	Environment	Source
LC50		>100 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	Freshwater	BL dodavatel
LC50		>1000 mg/l	96 hour	Fishes (Pimephales promelas)	Freshwater	BL dodavatel
LC50	OECD 202	>100 mg/l	48 hour	Daphnia (Daphnia magna)	Freshwater	BL dodavatel

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toluene

Parameter	Method	Value	Time of exposure	Species	Environment	Source
LC50		5.5 mg/l	96 hour	Fishes (Oncorhynchus mykiss)		BL dodavatel e
EC50		3.78 mg/l	48 hour	Invertebrates	Freshwater	BL dodavatel e
EC50		134 mg/l	3 hour	Algae (Chlorella vulgaris)	Freshwater	BL dodavatel e
EC50		84 mg/l	24 hour	Microorganisms (Photobacterium phosphoreum)		BL dodavatel e

trizinc bis(orthophosphate)

Parameter	Method	Value	Time of exposure	Species	Environment	Source
LC50		112 µg/l	96 day	Fishes		BL dodavatel e
EC50		0.413 mg/l	48 hour	Daphnia (Ceriodaphnia dubia)		BL dodavatel e
ErC50		0.136 mg/l	72 hour	Algae (Selenastrum capricornutum)		BL dodavatel e
EC50		5.2 mg/l	3 hour	Microorganisms (Photobacterium phosphoreum)		echa

zinc oxide

Parameter	Method	Value	Time of exposure	Species	Environment	Source
LC50		1.793 mg/l	96 hour	Fishes (Danio rerio)		BL dodavatel e
EC50		0.86 mg/l	48 hour	Daphnia (Daphnia magna)		BL dodavatel e
IC50		136 µg/l	72 hour	Algae (Pseudokirchneriella subcapitata)		BL dodavatel e
NOEC		24 µg/l	72 hour	Algae (Pseudokirchneriella subcapitata)		BL dodavatel e
NOEC		5.6 µg/l	24 day	Crustaceans (Holmesimysis costata)		BL dodavatel e

zinc-5-nitroisophthalate

Parameter	Method	Value	Time of exposure	Species	Environment	Source
LC50		330 µg/l	95 hour	Fishes (Oncorhynchus mykiss)		ECHA

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zinc-5-nitroisophthalate

Parameter	Method	Value	Time of exposure	Species	Environment	Source
NOEC		50-130 µg/l	5 month	Fishes (Oncorhynchus mykiss)		ECHA
EC50		155-2909 µg/l	48 hour	Daphnia (Daphnia magna)		ECHA
LC50		95-2287130 µg/l	48 hour	Aquatic invertebrates		ECHA
NOEC		300 µg/l	3 month	Aquatic invertebrates		ECHA
EC50		1448 µg/l	4 day	Algae and other aquatic plants		ECHA
IC50		106-2050 µg/l	72 hour	Algae and other aquatic plants		ECHA
NOEC		313 µg/l	5 day	Algae and other aquatic plants		ECHA
NOEC		60 µg/l	72 hour	Higher plants		ECHA
EC50		114.4 mg/l	3 hour	Microorganisms (Photobacterium phosphoreum)		ECHA
NOEC		100-24500 µg/l	4 hour	Microorganisms (Photobacterium phosphoreum)		ECHA

Chronic toxicity

2-methoxy-1-methylethyl acetate

Parameter	Method	Value	Time of exposure	Species	Environment	Source
LC50		63.5 mg/l	14 day	Fishes (Oncorhynchus mykiss)		echa

n-butyl acetate

Parameter	Method	Value	Time of exposure	Species	Environment	Source
NOEC	OECD 211	23 mg/l	21 day	Daphnia (Daphnia magna)		BL dodavatel e

Technical xylene (mixed with ethylbenzene)

Parameter	Method	Value	Time of exposure	Species	Environment	Source
NOEC		960 µg/l		Aquatic invertebrates		ECHA
NOEC		1.3 mg/l	56 day	Fishes (Oncorhynchus mykiss)		ECHA

toluene

Parameter	Method	Value	Time of exposure	Species	Environment	Source
NOEC		1.4 mg/l	40 day	Fishes (Pimephales promelas)		BL dodavatel e

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toluene

Parameter	Method	Value	Time of exposure	Species	Environment	Source
NOEC		0.74 mg/l	7 day	Invertebrates	Freshwater	BL dodavatel e
NOEC		10 mg/l		Algae	Freshwater	BL dodavatel e

zinc oxide

Parameter	Method	Value	Time of exposure	Species	Environment	Source
NOEC		0.056-0.061 mg/l	116 day	Fishes (Salmo trutta)		BL dodavatel e

12.2. Persistence and degradability

not available

12.3. Bioaccumulative potential

Not available.

12.4. Mobility in soil

Not available.

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 *

08 01 13 sludges from paint or varnish containing organic solvents or other hazardous substances *

20 01 27 paint, inks, adhesives and resins containing 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

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14.2. UN proper shipping name

PAINT

14.3. Transport hazard class(es)

3 Flammable liquids

14.4. Packing group

III - substances presenting low danger

14.5. Environmental hazards

Dangerous thing meets the criteria for designating environmentally hazardous substances in pieces over 5 liters / 5 kg.

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

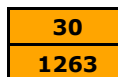
Additional information

Hazard identification No.

UN number

Classification code

Safety signs



F1

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

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Railway transport - RID

Special provisions 163, 367, 650
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

RID Tanks

Tank code LGBF
Transport category 0

Special provision for

packages W 12

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 of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

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.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer if inhaled.
H361d Suspected of damaging the unborn child.

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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.
H312+H332	Harmful in contact with skin or if inhaled.
Guidelines for safe handling used in the safety data sheet	
P501	Dispose of contents/container to by handing over to a person authorized to dispose of waste or a site designated by the town.
P102	Keep out of reach of children.
P101	If medical advice is needed, have product container or label at hand.
P391	Collect spillage.
P405	Store locked up.
P271	Use only outdoors or in a well-ventilated area.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P403+P235	Store in a well-ventilated place. Keep cool.
P370+P378	In case of fire: Use foam (alcohol resistant), carbon dioxide, a spray mist, powder to extinguish.
P260	Do not breathe vapours/spray.
P314	Get medical advice/attention if you feel unwell.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P103	Read label before use.

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

EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
EUH066	Repeated exposure may cause skin dryness or cracking.

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
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DNEL	Derived no-effect level
EC	Identification code for each substance listed in EINECS
EC50	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
IC50	Concentration causing 50% blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization

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IUPAC	International Union of Pure and Applied Chemistry
LC50	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD50	Lethal dose of a substance in which it can be expected death of 50% of the population
LOAEL	Lowest observed adverse effect level
log Kow	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution from Ships
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration
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 Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Asp. Tox.	Aspiration hazard
Carc.	Carcinogenicity
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
Repr.	Reproductive toxicity
Skin Irrit.	Skin irritation
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure
Without classification	Without classification

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 2.0 replaces the SDS version from 10 October 2016. Changes were made in sections 1, 2, 3, 7, 9, 11, 12, 13 and 16.

More information

Classification procedure - calculation method.

Statement



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



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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.