

SAFETY DATA SHEET

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



U2210 One-component single-coat polyurethane semi-gloss paint for wood and metal 1K POLYURETAN

Creation date 27th May 2022
Revision date Version 1.0

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

1.1. Product identifier

Substance / mixture U2210 One-component single-coat polyurethane semi-gloss paint for wood and metal 1K POLYURETAN
Number mixture
UFI U2210-A-R....
Other mixture names TWSV-35FX-910P-GKHH
U2210 Jednosložková jednovrstvá polyuretanová pololesklá barva na dřevo a kov 1K POLYURETAN

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

Mixture's intended use

1K POLYURETAN U2210 is suitable for coating wood and metals exposed to interior and exterior influences.

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. 3, H226
Skin Sens. 1A, H317
Eye Irrit. 2, H319
STOT SE 3, H336
STOT RE 2, H373 (central nervous system, respiratory tract (inhalation))
Aquatic Chronic 3, H412

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, the respiratory tract (inhalation) through prolonged or repeated exposure. May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects.

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2.2. Label elements

Hazard pictogram



Signal word

Warning

Hazardous substances

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
neodecanoic acid, cobalt salt
phthalic anhydride
cobalt bis(2-ethylhexanoate)

Hazard statements

H226	Flammable liquid and vapour.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to the central nervous system, the respiratory tract (inhalation) through prolonged or repeated exposure.
H412	Harmful 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.
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.
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

EUH066 Repeated exposure may cause skin dryness or cracking.

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Density	1,09-1,28 g/cm ³ at 23 °C (manufacturer's methodology B5/TD1-5 (ČSN EN ISO 2811-2))
VOC	0,310 kg/kg
TOC	0,260 kg/kg
Dry matter	65 % volume
VOC limit value	cat. A (i) SB: 500 g/l
Max. VOC content in the product in its ready to use condition	370 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

U2210 single-coat polyurethane paint is a dispersion of organic and inorganic substances in a solution of special urethane resins and additives in organic solvents. 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
EC: 919-857-5 Registration number: 01-2119463258-33	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	19-21	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336 EUH066	5, 7
Index: 022-006-00-2 CAS: 13463-67-7 EC: 236-675-5 Registration number: 01-2119489379-17	titanium dioxide	≤15	Carc. 2, H351 (inhalation)	2, 3, 4
CAS: 14807-96-6 EC: 238-877-9	talc (Mg ₃ H ₂ (SiO ₃) ₄)	≤10	not classified as dangerous	
CAS: 64742-82-1 EC: 919-446-0 Registration number: 01-2119458049-33	hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	≤5	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336 STOT RE 1, H372 (central nervous system, respiratory tract (inhalation)) Aquatic Chronic 2, H411 EUH066	7
Index: 649-327-00-6 EC: 918-481-9 Registration number: 01-2119457273-39	hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	2,7-3,2	Asp. Tox. 1, H304 EUH066	7
CAS: 7631-86-9 EC: 231-545-4 Registration number: 01-2119379499-16	Silica, amorphous	≤1,6	not classified as dangerous	

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 601-022-00-9 CAS: 1330-20-7 EC: 215-535-7 Registration number: 01-2119488216-32	XYLENE	1-1,3	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 (the gastrointestinal tract) Aquatic Chronic 3, H412	1, 5
CAS: 1333-86-4 EC: 215-609-9 Registration number: 01-2119384822-32	carbon black	≤1		
CAS: 22464-99-9 EC: 245-018-1 Registration number: 01-2119979088-21	2-ethylhexanoic acid, zirconium salt	≤0,40	Repr. 2, H361fd	5
CAS: 27253-31-2 EC: 248-373-0 Registration number: 01-2119970733-31	neodecanoic acid, cobalt salt	≤0,28	Acute Tox. 4, H302 Skin Sens. 1, H317 STOT RE 1, H372 (the gastrointestinal tract) Aquatic Chronic 3, H412	7
CAS: 136-51-6 EC: 205-249-0 Registration number: 01-2119978297-19	Calcium bis(2-ethylhexanoate)	≤0,26	Eye Dam. 1, H318 Repr. 2, H361d	
Index: 607-009-00-4 CAS: 85-44-9 EC: 201-607-5 Registration number: 01-2119457017-41	phthalic anhydride	≤0,23	Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318 Resp. Sens. 1, H334 STOT SE 3, H335	
CAS: 136-52-7 EC: 205-250-6 Registration number: 01-2119524678-29	cobalt bis(2-ethylhexanoate)	≤0,14	Skin Sens. 1A, H317 Eye Irrit. 2, H319 Repr. 1B, H360Fd Aquatic Acute 1, H400 (M=1) Aquatic Chronic 3, H412	6

Notes

- Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
- 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.

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- 6 The use of the substance is restricted by Annex XVII of REACH Regulation
7 Substance of unknown or variable composition, complex reaction products or biological materials - UVCB.

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

If inhaled

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

If on skin

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

If in eyes

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

If swallowed

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

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

If inhaled

Cough, headache. May cause drowsiness or dizziness.

If on skin

May cause an allergic skin reaction.

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.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

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

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
0,6 l	can / tin	
2,5 l	can / tin	
9 l	bucket	
20 kg	bucket	

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

Storage temperature +5-25 °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
XYLENE (CAS: 1330-20-7)	OEL 8 hours	221 mg/m ³	Skin
	OEL 8 hours	50 ppm	
	OEL 15 minutes	442 mg/m ³	

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European Union

Commission Directive 2000/39/EC

Substance name (component)	Type	Value	Note
XYLENE (CAS: 1330-20-7)	OEL 15 minutes	100 ppm	Skin

European Union

Commission Directive 91/322/EEC

Substance name (component)	Type	Value	Note
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	OEL 8 hours	1200 mg/m ³	
	OEL 15 minutes	197 ppm	
2-ethylhexanoic acid, zirconium salt (CAS: 22464-99-9)	OEL 8 hours	5 mg/m ³	
	OEL 15 minutes	10 mg/m ³	

DNEL

2-ethylhexanoic acid, zirconium salt

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	32.97 mg/m ³	Systemic chronic effects		BL dodavatele
Workers	Dermal	6.49 mg/kg bw/day	Systemic chronic effects		BL dodavatele
Consumers	Inhalation	8.13 mg/kg bw/day	Systemic chronic effects		BL dodavatele
Consumers	Dermal	3.25 mg/kg bw/day	Systemic chronic effects		BL dodavatele
Consumers	Oral	4.51 mg/kg bw/day	Systemic chronic effects		BL dodavatele

Calcium bis(2-ethylhexanoate)

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	39.98 mg/m ³	Systemic chronic effects		BL dodavatele
Workers	Dermal	5.7 mg/kg bw/day	Systemic chronic effects		BL dodavatele
Consumers	Dermal	2.83 mg/kg bw/day	Systemic chronic effects		BL dodavatele
Consumers	Inhalation	9.86 mg/m ³	Systemic chronic effects		BL dodavatele
Consumers	Oral	2.83 mg/kg bw/day	Systemic chronic effects		BL dodavatele

carbon black

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	2 mg/m ³	Local acute effects		BL dodavatele

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cobalt bis(2-ethylhexanoate)

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	0.2351 mg/m ³	Local chronic effects		BL dodavatele
Consumers	Inhalation	0.037 mg/m ³	Local chronic effects		BL dodavatele
Consumers	Inhalation	0.175 mg/m ³	Systemic chronic effects		BL dodavatele

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Dermal	208 mg/kg bw/day	Systemic chronic effects		BL dodavatele
Workers	Inhalation	871 mg/m ³	Systemic chronic effects		BL dodavatele
Consumers	Dermal	125 mg/kg bw/day	Systemic chronic effects		BL dodavatele
Consumers	Inhalation	185 mg/m ³	Systemic chronic effects		BL dodavatele
Consumers	Oral	125 mg/m ³	Systemic chronic effects		BL dodavatele

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

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	871 mg/m ³	Systemic chronic effects		BL dodavatele
Workers	Dermal	208 mg/kg bw/day	Systemic chronic effects		BL dodavatele
Consumers	Inhalation	185 mg/m ³	Systemic chronic effects		BL dodavatele
Consumers	Dermal	125 mg/kg bw/day	Systemic chronic effects		BL dodavatele
Consumers	Oral	125 mg/kg bw/day	Systemic chronic effects		BL dodavatele

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

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	330 mg/m ³	Systemic chronic effects		BL dodavatele
Workers	Dermal	44 mg/kg bw/day	Systemic chronic effects		BL dodavatele
Consumers	Inhalation	71 mg/m ³	Systemic chronic effects		BL dodavatele
Consumers	Dermal	26 mg/kg bw/day	Systemic chronic effects		BL dodavatele
Consumers	Oral	26 mg/kg bw/day	Systemic chronic effects		BL dodavatele

neodecanoic acid, cobalt salt

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	0.273 mg/m ³	Local chronic effects		BL dodavatele
Consumers	Inhalation	0.043 mg/m ³	Local chronic effects		BL dodavatele
Consumers	Oral	0.032 mg/kg bw/day	Systemic chronic effects		BL dodavatele

Silica, amorphous

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	4 mg/m ³	Systemic chronic effects		BL dodavatele

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titanium dioxide

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

XYLENE

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	77 mg/m ³	Systemic chronic effects		BL dodavatele
Workers	Dermal	180 mg/kg	Systemic chronic effects		BL dodavatele
Consumers	Inhalation	14.8 mg/m ³	Systemic chronic effects		BL dodavatele
Consumers	Dermal	108 mg/kg	Systemic chronic effects		BL dodavatele
Consumers	Oral	1.6 mg/kg	Systemic chronic effects		BL dodavatele
Workers	Inhalation	289 mg/m ³	Systemic acute effects		BL dodavatele
Workers	Inhalation	289 mg/m ³	Local acute effects		BL dodavatele

PNEC

2-ethylhexanoic acid, zirconium salt

Route of exposure	Value	Value determination	Source
Freshwater environment	0.36 mg/l		BL dodavatele
Seawater	0.036 mg/l		BL dodavatele
Soil (agricultural)	1.06 mg/kg of dry substance		BL dodavatele
Microorganisms in wastewater treatment plants	71.7 mg/l		BL dodavatele
Freshwater sediment	6.37 mg/kg of dry substance of sediment		BL dodavatele
Sea sediments	0.637 mg/kg of dry substance of sediment		BL dodavatele

Calcium bis(2-ethylhexanoate)

Route of exposure	Value	Value determination	Source
Freshwater environment	0.36 mg/l		BL dodavatele
Seawater	0.036 mg/l		BL dodavatele
Microorganisms in wastewater treatment plants	71.7 mg/l		BL dodavatele
Freshwater sediment	6.37 mg/kg of dry substance of sediment		BL dodavatele
Sea sediments	0.637 mg/kg of dry substance of sediment		BL dodavatele
Soil (agricultural)	1.06 mg/kg of dry substance		BL dodavatele

carbon black

Route of exposure	Value	Value determination	Source
Freshwater environment	5 mg/l		BL dodavatele
Seawater	5 mg/l		BL dodavatele

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cobalt bis(2-ethylhexanoate)

Route of exposure	Value	Value determination	Source
Freshwater environment	0.62 µg/l		BL dodavatele
Seawater	2.36 µg/l		BL dodavatele
Microorganisms in wastewater treatment plants	0.37 mg/l		BL dodavatele
Freshwater sediment	53.8 mg/kg of dry substance of sediment		BL dodavatele
Sea sediments	69.8 mg/kg of dry substance of sediment		BL dodavatele
Soil (agricultural)	10.9 mg/kg of dry substance of soil		BL dodavatele

neodecanoic acid, cobalt salt

Route of exposure	Value	Value determination	Source
Freshwater environment	0.62 µg/l		BL dodavatele
Seawater	2.36 µg/l		BL dodavatele
Microorganisms in wastewater treatment plants	0.37 mg/l		BL dodavatele
Freshwater sediment	53.8 mg/kg of dry substance of sediment		BL dodavatele
Sea sediments	69.8 mg/kg of dry substance of sediment		BL dodavatele
Soil (agricultural)	10.9 mg/kg of dry substance		BL dodavatele

phthalic anhydride

Route of exposure	Value	Value determination	Source
Freshwater environment	1 mg/l		ECHA
Seawater	100 µg/l		ECHA
Microorganisms in wastewater treatment plants	10 mg/l		ECHA
Freshwater sediment	3.8 mg/kg of dry substance of sediment		ECHA
Sea sediments	0.38 mg/kg of dry substance of sediment		ECHA
Soil (agricultural)	0.173 mg/kg of dry substance of soil		ECHA

titanium dioxide

Route of exposure	Value	Value determination	Source
Freshwater environment	0.127 mg/l		BL dodavatele
Seawater	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

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titanium dioxide

Route of exposure	Value	Value determination	Source
Soil (agricultural)	100 mg/kg		BL dodavatele
Microorganisms in wastewater treatment plants	100 mg/l		BL dodavatele
Food chain	1667 mg/kg		BL dodavatele

XYLENE

Route of exposure	Value	Value determination	Source
Freshwater environment	0.327 mg/l		BL dodavatele
Seawater	0.327 mg/l		BL dodavatele
Water (intermittent release)	0.327 mg/l		BL dodavatele
Microorganisms in wastewater treatment plants	6.58 mg/l		BL dodavatele
Freshwater sediment	12.46 mg/kg		BL dodavatele
Sea sediments	12.46 mg/kg		BL dodavatele
Soil (agricultural)	2.31 mg/kg		BL dodavatele

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. 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.

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', by shades
Odour	after organic solvents
Melting point/freezing point	data not available
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	-83 °C (BL dodavatele)
1-methoxy-2-propanol (CAS: 107-98-2)	-96 °C (BL dodavatele)
2-butanone oxime (CAS: 96-29-7)	-29 °C (BL dodavatele)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	-66 °C (BL dodavatele)
barium sulfate (CAS: 7727-43-7)	1600 °C (BL dodavatele)
calcium dipropionate (CAS: 4075-81-4)	382-384 °C (ECHA)
carbon black (CAS: 1333-86-4)	3652-3697 °C (BL dodavatele)
cobalt bis(2-ethylhexanoate) (CAS: 136-52-7)	53-84 °C (ECHA)
ethanol (CAS: 64-17-5)	-114,15 °C (BL dodavatele)
ethylbenzene (CAS: 100-41-4)	-95,15--94,9 °C (ECHA)

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hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	<-20 °C (BL dodavatele)
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (CAS: 64742-82-1)	-73 °C (BL dodavatele)
Iron hydroxide oxide yellow (CAS: 51274-00-1)	>1000 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	-78 °C (BL dodavatele)
phthalic anhydride (CAS: 85-44-9)	131,6 °C (BL dodavatele)
Silica, amorphous (CAS: 7631-86-9)	1700 °C (BL dodavatele)
talc (Mg3H2(SiO3)4) (CAS: 14807-96-6)	>1300 °C (BL dodavatele)
titanium dioxide (CAS: 13463-67-7)	>1560 °C (BL dodavatele)
Trimethylolpropane total dust (CAS: 77-99-6)	58 °C (BL dodavatele)
XYLENE (CAS: 1330-20-7)	-94,4-13,2 °C (BL dodavatele)
Boiling point or initial boiling point and boiling range	data not available
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	189,6 °C (BL dodavatele)
1-methoxy-2-propanol (CAS: 107-98-2)	120,15 °C (BL dodavatele)
2-butanone oxime (CAS: 96-29-7)	152 °C (BL dodavatele)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	145,8 °C (BL dodavatele)
cobalt bis(2-ethylhexanoate) (CAS: 136-52-7)	90 °C (ECHA)
ethanol (CAS: 64-17-5)	78,3 °C (BL dodavatele)
ethylbenzene (CAS: 100-41-4)	136,1 °C (ECHA)
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	160-245 °C (BL dodavatele)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	154-193 °C (BL dodavatele)
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (CAS: 64742-82-1)	155-194 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	124-126,5 °C (BL dodavatele)
phthalic anhydride (CAS: 85-44-9)	284,5 °C (BL dodavatele)
titanium dioxide (CAS: 13463-67-7)	3000 °C (BL dodavatele)
Trimethylolpropane total dust (CAS: 77-99-6)	302 °C (BL dodavatele)
XYLENE (CAS: 1330-20-7)	136,2-144,5 °C (BL dodavatele)
Flammability	Flammable liquid of risk class II (ČSN 65 0201)
ethanol (CAS: 64-17-5)	hořlavý (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	hořlavý (odvozeno od bodu vzplanutí)
Lower and upper explosion limit	
bottom	0,6 % (for hydrocarbons)
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	1,1 % (BL dodavatele)
1-methoxy-2-propanol (CAS: 107-98-2)	1,48 % (BL dodavatele)
2-butanone oxime (CAS: 96-29-7)	1,9 % (BL dodavatele)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	1,5 % (BL dodavatele)
ethanol (CAS: 64-17-5)	3,3 % (BL dodavatele)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	0,7 % (BL dodavatele)
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (CAS: 64742-82-1)	0,7 % (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	1,2 % (literatura)
Trimethylolpropane total dust (CAS: 77-99-6)	1,4 % (BL dodavatele)
XYLENE (CAS: 1330-20-7)	0,8 % (BL dodavatele)
upper	19 % (for ethanol)
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	14 % (BL dodavatele)
1-methoxy-2-propanol (CAS: 107-98-2)	13,7 % (BL dodavatele)
2-butanone oxime (CAS: 96-29-7)	12,3 % (BL dodavatele)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	7,0 % (BL dodavatele)

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ethanol (CAS: 64-17-5)	19 % (BL dodavatele)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	6 % (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)
Trimethylolpropane total dust (CAS: 77-99-6)	7,5 % (BL dodavatele)
XYLENE (CAS: 1330-20-7)	7 % (BL dodavatele)
Flash point	39,5 °C (ČSN EN ISO 3679)
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	75 °C (BL dodavatele)
2-butanone oxime (CAS: 96-29-7)	62 °C (BL dodavatele)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	45 °C (BL dodavatele)
carbon black (CAS: 1333-86-4)	>600 °C (BL dodavatele)
cobalt bis(2-ethylhexanoate) (CAS: 136-52-7)	23-55 °C (ECHA)
ethanol (CAS: 64-17-5)	12,85 °C (BL dodavatele)
ethylbenzene (CAS: 100-41-4)	22,85 °C (ECHA)
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	>61 °C (BL dodavatele)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	41 °C (BL dodavatele)
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (CAS: 64742-82-1)	43 °C (BL dodavatele)
imine compound	78 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	27 °C (BL dodavatele)
phthalic anhydride (CAS: 85-44-9)	152 °C (BL dodavatele)
Trimethylolpropane total dust (CAS: 77-99-6)	174 °C (BL dodavatele)
XYLENE (CAS: 1330-20-7)	18-32 °C (BL dodavatele)
Auto-ignition temperature	data not available
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	207 °C (BL dodavatele)
1-methoxy-2-propanol (CAS: 107-98-2)	287 °C (BL dodavatele)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	333 °C (BL dodavatele)
carbon black (CAS: 1333-86-4)	>140 °C (BL dodavatele)
ethanol (CAS: 64-17-5)	362,85 °C (BL dodavatele)
ethylbenzene (CAS: 100-41-4)	430-432 °C (ECHA)
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	>200 °C (BL dodavatele)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	237 °C (BL dodavatele)
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (CAS: 64742-82-1)	242 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	415 °C (BL dodavatele)
phthalic anhydride (CAS: 85-44-9)	580 °C (BL dodavatele)
Trimethylolpropane total dust (CAS: 77-99-6)	414 °C (BL dodavatele)
XYLENE (CAS: 1330-20-7)	432-528 °C (BL dodavatele)
Decomposition temperature	data not available
Iron hydroxide oxide yellow (CAS: 51274-00-1)	180 °C (BL dodavatele)
talc (Mg3H2(SiO3)4) (CAS: 14807-96-6)	>1000 °C (BL dodavatele)
urea-aldehyde resin	190 °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)
imine compound	8,5 (12% solution) (BL dodavatele)
Iron hydroxide oxide yellow (CAS: 51274-00-1)	4,5-7,5 (0,005% solution) (BL dodavatele)
talc (Mg3H2(SiO3)4) (CAS: 14807-96-6)	9-9,5 (10% solution) (BL dodavatele)
Kinematic viscosity	>20,5 mm²/s at 40 °C

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Kinematic viscosity	data not available
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	4,55 mm ² /s at 20 °C (BL dodavatele)
1-methoxy-2-propanol (CAS: 107-98-2)	1,86 mm ² /s at 25 °C (BL dodavatele)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	1,23 mm ² /s at 40 °C (BL dodavatele)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	1,02 mm ² /s at 40 °C (BL dodavatele)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	1,35 mm ² /s at 20 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	0,83 mm ² /s at 20 °C (BL dodavatele)
Viscosity - flow time	150 - 210 s (manufacturer's methodology B5/TD1-33 (ČSN EN ISO 2431))
Solubility in water	Immiscible
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	>1000 g/l (25 °C) (BL dodavatele)
2-butanone oxime (CAS: 96-29-7)	114 g/l při 20°C (BL dodavatele)
2-ethylhexanoic acid, zirconium salt (CAS: 22464-99-9)	210-750 ng/l při 20°C (ECHA)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	247 g/l (BL dodavatele)
barium sulfate (CAS: 7727-43-7)	3,1 mg/l (BL dodavatele)
calcium 3,5,5-trimethylhexanoate (CAS: 64216-15-5)	14,9 g/l při 20°C (ECHA)
Calcium bis(2-ethylhexanoate) (CAS: 136-51-6)	80,4 g/l při 20°C (ECHA)
calcium dipropionate (CAS: 4075-81-4)	289 g/l při 20°C (ECHA)
cobalt bis(2-ethylhexanoate) (CAS: 136-52-7)	40,3 g/l při 20°C (ECHA)
ethanol (CAS: 64-17-5)	789 000 mg/l při 20°C (BL dodavatele)
ethylbenzene (CAS: 100-41-4)	200 mg/l při 25°C (ECHA)
fatty acids, C9-13-neo-, barium salt (CAS: 92044-82-1)	146 g/l při 20°C (ECHA)
imine compound	částečně rozpustný (BL dodavatele)
Iron hydroxide oxide yellow (CAS: 51274-00-1)	nerozpustný (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	5,3 g/l při 20 °C (pH 6) (BL dodavatele)
Silica, amorphous (CAS: 7631-86-9)	>1 mg/l (BL dodavatele)
titanium dioxide (CAS: 13463-67-7)	rozpustný (BL dodavatele)
Trimethylolpropane total dust (CAS: 77-99-6)	>1000 g/l (BL dodavatele)
urea-aldehyde resin	nerozpustný (BL dodavatele)
XYLENE (CAS: 1330-20-7)	146-190,7 mg/l při 25°C (BL dodavatele)
zirconium acetate (CAS: 7585-20-8)	931 g/l při 20°C (ECHA)
Partition coefficient n-octanol/water (log value)	logPow -0,3 to more than 4 (range of components contained)
ethylbenzene (CAS: 100-41-4)	3,03-3,6 (ECHA)
Vapour pressure	0,37 till 57,26 hPa at 20 °C (range of components contained)
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	0,037 kPa at 20 °C (BL dodavatele)
2-butanone oxime (CAS: 96-29-7)	1,41 hPa at 20 °C (BL dodavatele)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	355 at 20 °C (BL dodavatele)
cobalt bis(2-ethylhexanoate) (CAS: 136-52-7)	110 kPa at 20 °C (ECHA)
ethanol (CAS: 64-17-5)	57,26 hPa at 19,65 °C (BL dodavatele)
ethylbenzene (CAS: 100-41-4)	9,52-10,1 hPa at 20 °C (ECHA)
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	<0,1 kPa at 20 °C (BL dodavatele)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	20 hPa at 20 °C (BL dodavatele)
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (CAS: 64742-82-1)	0,2 kPa at 20 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	11,6 hPa at 20 °C (BL dodavatele)
phthalic anhydride (CAS: 85-44-9)	0,0006 hPa at 26,6 °C (BL dodavatele)
Trimethylolpropane total dust (CAS: 77-99-6)	0,01 Pa (BL dodavatele)

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XYLENE (CAS: 1330-20-7)	650-944 Pa (BL dodavatele)
Density and/or relative density	
Density	1,09-1,28 g/cm ³ at 23 °C (manufacturer's methodology B5/TD1-5 (ČSN EN ISO 2811-2))
1-methoxy-2-propanol (CAS: 107-98-2)	0,919 g/cm ³ at 25 °C (BL dodavatele)
2-butanone oxime (CAS: 96-29-7)	0,92 g/cm ³ at 20 °C (BL dodavatele)
2-ethylhexanoic acid, zirconium salt (CAS: 22464-99-9)	1,4 g/cm ³ at 20 °C (ECHA)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	0,964 g/cm ³ at 25 °C (BL dodavatele)
barium sulfate (CAS: 7727-43-7)	4,49 g/cm ³ at 20 °C (BL dodavatele)
calcium 3,5,5-trimethylhexanoate (CAS: 64216-15-5)	1,06 g/cm ³ at 20 °C (ECHA)
Calcium bis(2-ethylhexanoate) (CAS: 136-51-6)	1,07 g/cm ³ at 20 °C (ECHA)
calcium dipropionate (CAS: 4075-81-4)	1,41 g/cm ³ at 20 °C (ECHA)
carbon black (CAS: 1333-86-4)	1,7-1,9 g/cm ³ at 20 °C (BL dodavatele)
cobalt bis(2-ethylhexanoate) (CAS: 136-52-7)	1,25 g/cm ³ at 20 °C (ECHA)
ethanol (CAS: 64-17-5)	0,7844 g/cm ³ at 25 °C (BL dodavatele)
ethylbenzene (CAS: 100-41-4)	0,867-0,868 g/cm ³ at 20 °C (ECHA)
fatty acids, C9-13-neo-, barium salt (CAS: 92044-82-1)	1,37 g/cm ³ at 20 °C (ECHA)
1) hydrocarbons, C10-C13, n-alkanes, isolakanes, cyclics, <2% aromatics	0,751-0,851 g/cm ³ at 15 °C (BL dodavatele)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	0,78 g/cm ³ at 15 °C (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)
imine compound	0,88 g/cm ³ at 20-23 °C (BL dodavatele)
Iron hydroxide oxide yellow (CAS: 51274-00-1)	4,1 g/cm ³ at 20 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	0,8812 g/cm ³ at 20 °C (BL dodavatele)
phthalic anhydride (CAS: 85-44-9)	1,527 g/cm ³ at 20 °C (BL dodavatele)
Silica, amorphous (CAS: 7631-86-9)	2,2 g/cm ³ at 20 °C (BL dodavatele)
talc (Mg ₃ H ₂ (SiO ₃) ₄) (CAS: 14807-96-6)	2,58-2,83 g/cm ³ (BL dodavatele)
Trimethylolpropane total dust (CAS: 77-99-6)	1,12 g/cm ³ (BL dodavatele)
urea-aldehyde resin	1,1 g/cm ³ at 20 °C (BL dodavatele)
XYLENE (CAS: 1330-20-7)	0,862-0,88 g/cm ³ at 25 °C (BL dodavatele)
zirconium acetate (CAS: 7585-20-8)	1,87 g/cm ³ at 20 °C (ECHA)
Form	liquid, medium viscous liquid without mechanical impurities, scaling and miscible sediment allowed
imine compound	liquid (BL dodavatele)
9.2. Other information	
Vapour density	> 1 (air = 1)
Combustion temperature	86 °C (ČSN EN ISO 2592)
Molar weight	data not available
1-methoxy-2-propanol (CAS: 107-98-2)	90,1 g/mol (BL dodavatele)
barium sulfate (CAS: 7727-43-7)	233,39 g/mol (BL dodavatele)
Content of organic solvents (VOC)	0,310 kg/kg (calculation)
Total organic carbon (TOC)	0,260 kg/kg (calculation)
Solid content (dry matter)	65 % 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	370 g/l (calculation)

SECTION 10: Stability and reactivity

10.1. Reactivity

not available

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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 available data the classification criteria are not met.

2-ethylhexanoic acid, zirconium salt

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Source
Oral	LD ₅₀	OECD 401	>5000 mg/kg		Rat (Rattus norvegicus)	F	BL dodavatel e
Dermal	LD ₅₀	OECD 402	>5000 mg/kg bw		Rat (Rattus norvegicus)	F/M	BL dodavatel e

Calcium bis(2-ethylhexanoate)

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Source
Oral	LD ₅₀	OECD 420	2043 mg/kg		Rat (Rattus norvegicus)	F	BL dodavatel e
Dermal	LD ₅₀	OECD 402	>5000 mg/kg		Rat (Rattus norvegicus)	F/M	BL dodavatel e

carbon black

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Source
Oral	LD ₅₀	OECD 401	>8000 mg/kg		Rat		BL dodavatel e
Inhalation	LC 0		4.6 mg/m ³	4 hour	Rat		BL dodavatel e
Inhalation	NOAEL		1.1 mg/m ³	13 week	Rat		BL dodavatel e

cobalt bis(2-ethylhexanoate)

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Source
Oral	LD ₅₀	OECD 425	3129 mg/kg		Rat (Rattus norvegicus)	F	BL dodavatel e

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cobalt bis(2-ethylhexanoate)

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Source
Dermal	LD ₅₀	OECD 402	>2000 mg/kg		Rat (Rattus norvegicus)	F/M	BL dodavatel e

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Source
Oral	LD ₅₀		>6000 mg/kg		Rat (Rattus norvegicus)		BL dodavatel e
	EC ₅₀		5 mg/l of air	72 hour	Rat		ECHA
Dermal	LD ₅₀		>5000 mg/kg	72 hour	Rabbit		BL dodavatel e
Inhalation	LC ₅₀		>4951 mg/m ³	4 hour	Rat		BL dodavatel e
Oral	LD ₅₀		>5000 mg/kg		Rat		BL dodavatel e

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

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

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

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

neodecanoic acid, cobalt salt

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Source
Oral	LD ₅₀	OECD 425	1098 mg/kg		Rat (Rattus norvegicus)	F	BL dodavatel e
Dermal	LD ₅₀	OECD 402	>5000 mg/kg		Rat (Rattus norvegicus)	F/M	BL dodavatel e

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phthalic anhydride

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Source
Oral	LD ₅₀		1530 mg/kg bw		Rat (Rattus norvegicus)		ECHA
Inhalation	LC ₅₀		2.14 mg/l of air	4 hour	Rat (Rattus norvegicus)		ECHA

Silica, amorphous

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

titanium dioxide

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

XYLENE

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Source
Oral	LD ₅₀		4300 mg/kg		Rat (Rattus norvegicus)		BL dodavatel e
Dermal	LD ₅₀		>4200 mg/kg		Rabbit		BL dodavatel e
Inhalation	LC ₅₀		29000 mg/m ³	4 hour	Rat		BL dodavatel e

Skin corrosion/irritation

Based on available data the classification criteria are not met.

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

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

neodecanoic acid, cobalt salt

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

talca (Mg₃H₂(SiO₃)₄)

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

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Serious eye damage/irritation

Causes serious eye irritation.

Calcium bis(2-ethylhexanoate)

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

cobalt bis(2-ethylhexanoate)

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

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

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

neodecanoic acid, cobalt salt

Route of exposure	Result	Method	Exposure time	Species	Source
Eye	Not irritating	OECD 405		Rabbit	BL dodavatele

Respiratory or skin sensitisation

May cause an allergic skin reaction.

cobalt bis(2-ethylhexanoate)

Route of exposure	Result	Method	Exposure time	Species	Sex	Source
Dermal	Sensitizing	OECD 429		Mouse		BL dodavatele

neodecanoic acid, cobalt salt

Route of exposure	Result	Method	Exposure time	Species	Sex	Source
Dermal	Sensitizing	OECD 429		Mouse		BL dodavatele

Germ cell mutagenicity

Based on available data the classification criteria are not met.

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

Result	Method	Exposure time	Specific target organ	Species	Sex	Source
Negative	OECD 471					BL dodavatele

neodecanoic acid, cobalt salt

Result	Method	Exposure time	Specific target organ	Species	Sex	Source
Negative	OECD 471					BL dodavatele
Negative	OECD 475			Rat (Rattus norvegicus)		BL dodavatele

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Carcinogenicity

Based on available data the classification criteria are not met.

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

Route of exposure	Parameter	Method	Value	Result	Species	Sex	Source
		OECD 453		Negative			BL dodavatele

Reproductive toxicity

Based on available data the classification criteria are not met.

2-ethylhexanoic acid, zirconium salt

Effect	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
Effects on fertility	NOAEL		300 mg/kg bw			Rat (Rattus norvegicus)	F/M	BL dodavatele
Developmental toxicity	NOAEL		100 mg/kg bw	21 day		Rat (Rattus norvegicus)		BL dodavatele

Calcium bis(2-ethylhexanoate)

Effect	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
Developmental toxicity	NOAEL		100 mg/kg bw			Rat (Rattus norvegicus)		BL dodavatele

cobalt bis(2-ethylhexanoate)

Effect	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
Effects on fertility	NOAEL	OECD 408	30 mg/kg bw	90 day		Rat (Rattus norvegicus)	F/M	BL dodavatele
Developmental toxicity	NOAEL	OECD 414	100 mg/kg bw	13 day		Rat (Rattus norvegicus)	F/M	BL dodavatele

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

Effect	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
		OECD 413			Negative			BL dodavatele

neodecanoic acid, cobalt salt

Effect	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
Effects on fertility	NOAEL	OECD 422	5 mg/kg bw		Negative	Rat (Rattus norvegicus)	F/M	BL dodavatele

Toxicity for specific target organ - single exposure

May cause drowsiness or dizziness.

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

Route of exposure	Parameter	Value	Result	Species	Sex	Source
			Positive			BL dodavatele

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Toxicity for specific target organ - repeated exposure

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

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

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

neodecanoic acid, cobalt salt

Route of exposure	Parameter	Method	Value	Result	Species	Sex	Source
Oral				Positive			BL dodavatele

Repeated dose toxicity

2-ethylhexanoic acid, zirconium salt

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL			71 mg/kg	13 week	Rat (Rattus norvegicus)	F	BL dodavatele
Oral	LOAEL			360 mg/kg	13 week	Rat (Rattus norvegicus)	F	BL dodavatele
Oral	NOAEL			61 mg/kg	13 week	Rat (Rattus norvegicus)	M	BL dodavatele
Oral	LOAEL			303 mg/kg	13 week	Rat (Rattus norvegicus)	M	BL dodavatele
Oral	NOAEL			180 mg/kg	13 week	Mouse	M	BL dodavatele
Oral	NOAEL			205 mg/kg	13 week	Mouse	F	BL dodavatele
Inhalation (dust/mist)			OECD 412	>100.8 mg/m ³	30 day (6 hour/day, 5 days/week)	Rat (Rattus norvegicus)		BL dodavatele
Inhalation (dust/mist)			OECD 413	>15.4 mg/m ³	60 day (6 hour/day, 5 days/week)	Rat (Rattus norvegicus)		BL dodavatele

Calcium bis(2-ethylhexanoate)

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL			61 mg/kg	13 week	Rat (Rattus norvegicus)	F/M	BL dodavatele
Oral	LOAEL			303 mg/kg	13 week	Rat (Rattus norvegicus)	F/M	BL dodavatele

cobalt bis(2-ethylhexanoate)

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL		OECD 408	3 mg/kg	90 day	Rat (Rattus norvegicus)	F/M	BL dodavatele

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cobalt bis(2-ethylhexanoate)

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	LOAEL			5 mg/kg	14 day	Rat (Rattus norvegicus)	F/M	BL dodavatel e
Oral	LOAEL		OECD 422	5 mg/kg	48 day	Rat (Rattus norvegicus)	F/M	BL dodavatel e
Inhalation (aerosols)			OECD 413	0.61 mg/m ³	14 week (5 days/week)	Mouse	F/M	BL dodavatel e

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

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

neodecanoic acid, cobalt salt

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL		OECD 422	5 mg/kg	40-49 day (7 days/week)	Rat (Rattus norvegicus)	F/M	BL dodavatel e

phthalic anhydride

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL			500 mg/kg bw/day		Rat (Rattus norvegicus)		ECHA

XYLENE

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL			150-250 mg/kg bw/day		Rat (Rattus norvegicus)		echa

Aspiration hazard

Based on available data the classification criteria are not met.

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

Route of exposure	Result	Exposure time	Species	Sex	Source
	Positive				BL dodavatele

11.2. Information on other hazards

not available

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

Harmful to aquatic life with long lasting effects.

2-ethylhexanoic acid, zirconium salt

Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀	OECD 203	>100 mg/l	96 hour	Fishes (Oryzias latipes)		BL dodavatel e

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Calcium bis(2-ethylhexanoate)

Parameter	Method	Value	Exposure time	Species	Environment	Source
EC ₅₀	OECD 203	>100 mg/l	96 hour	Fishes (Oryzias latipes)		BL dodavatel e
EC ₅₀		112.1 mg/l	17 hour	Microorganisms (Pseudomonas putida)		BL dodavatel e

carbon black

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

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

Parameter	Method	Value	Exposure time	Species	Environment	Source
LL 0		1000 mg/l	96 hour	Fishes (Oncorhynchus mykiss)		BL dodavatel e
EL 0		1000 mg/l	48 hour	Daphnia (Daphnia magna)		BL dodavatel e
EL 0		1000 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)		BL dodavatel e

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

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

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

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

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

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

neodecanoic acid, cobalt salt

Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		85.3 mg/l	96 hour	Fishes (Danio rerio)	Freshwater	BL dodavatel e
LC ₅₀		429 mg/l	96 hour	Aquatic invertebrates (Chironomus sp. (Rod pakomáři))	Freshwater	BL dodavatel e
EC ₅₀		71.3 mg/l	96 hour	Algae and other aquatic plants (Dunaliella tertiolecta (Řasa))	Salt water	BL dodavatel e
EC 10	OECD 209	3.73 mg/l	30 min	Microorganisms (Photobacterium phosphoreum)	Activated sludge	BL dodavatel e

phthalic anhydride

Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		560 mg/l	1 week	Fishes (Oncorhynchus mykiss)		ECHA
EC ₅₀		640 mg/l	48 hour	Aquatic invertebrates		ECHA
NOEC		100 mg/l	72 hour	Algae and other aquatic plants		ECHA
EC ₅₀		213 mg/l	16 hour	Microorganisms (Photobacterium phosphoreum)		ECHA

Silica, amorphous

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

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talca (Mg₃H₂(SiO₃)₄)

Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		>100000 mg/l	24 hour	Fishes (Oncorhynchus mykiss)		výrobce
LC ₅₀		94983.781 mg/kg	48 hour	Crustaceans		výrobce
LC ₅₀		48545.539 mg/l		Algae (Selenastrum capricornutum)		výrobce

titanium dioxide

Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		>100 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	Freshwater	BL dodavatel
LC ₅₀		>1000 mg/l	96 hour	Fishes (Pimephales promelas)	Freshwater	BL dodavatel
LC ₅₀	OECD 202	>100 mg/l	48 hour	Daphnia (Daphnia magna)	Freshwater	BL dodavatel

XYLENE

Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		13.5 mg/l	96 hour	Fishes (Oncorhynchus mykiss)		BL dodavatel
EC ₅₀	OECD 202	1 mg/l	24 hour	Daphnia (Daphnia magna)		BL dodavatel
EC ₅₀		2.2 mg/l	72 hour	Algae (Selenastrum capricornutum)		BL dodavatel
EC ₅₀		96 mg/l	24 hour	Microorganisms (Photobacterium phosphoreum)		echa

Chronic toxicity

2-ethylhexanoic acid, zirconium salt

Parameter	Method	Value	Exposure time	Species	Environment	Source
NOEC	OECD 211	25 mg/l	21 day	Daphnia (Daphnia magna)		BL dodavatel

Calcium bis(2-ethylhexanoate)

Parameter	Method	Value	Exposure time	Species	Environment	Source
NOEC	OECD 211	25 mg/l	21 day	Daphnia (Daphnia magna)		BL dodavatel

cobalt bis(2-ethylhexanoate)

Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		41.6 mg/l	28 day	Fishes (Cyprinodon variegatus)		BL dodavatel

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cobalt bis(2-ethylhexanoate)

Parameter	Method	Value	Exposure time	Species	Environment	Source
EC 10		0.0197 mg/l	7 day	Daphnia (Ceriodaphnia dubia)	Freshwater	BL dodavatel e

neodecanoic acid, cobalt salt

Parameter	Method	Value	Exposure time	Species	Environment	Source
NOEC		31802 µg/l		Fishes (Cyprinodon variegatus (halančíkovec diamantový))	Salt water	BL dodavatel e
NOEC		351.4 µg/l	96 hour	Fishes (Pimephales promelas (střevle))	Freshwater	BL dodavatel e
EC 10	OECD 211	7.55 µg/l		Aquatic invertebrates (Hyalella azteca (Různonožci))		BL dodavatel e

XYLENE

Parameter	Method	Value	Exposure time	Species	Environment	Source
NOEC		>1.3 mg/l	56 day	Fishes (Oncorhynchus mykiss)		BL dodavatel e
NOEC		1.17 mg/l	7 day	Daphnia (Daphnia sp.)		BL dodavatel e

12.2. Persistence and degradability

Biodegradability

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

Parameter	Method	Value	Exposure time	Environment	Result	Source
Degradovaný podíl		80	28 day	Freshwater	Easily biodegradable	BL dodavatel e

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

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

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

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

not available

12.3. Bioaccumulative potential

cobalt bis(2-ethylhexanoate)

Parameter	Value	Exposure time	Species	Environment	Temperature [°C]	Source
BCF	180-4000					BL dodavatele

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neodecanoic acid, cobalt salt

Parameter	Value	Exposure time	Species	Environment	Temperature [°C]	Source
BCF	180-4000					BL dodavatele

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

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

No.

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

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Additional information

Hazard identification No.

30

UN number

1263

Classification code

F1

Safety signs

3



Road transport - ADR

Special provisions

163, 640E, 650, 367

Limited quantities

5 L

Excepted quantities

E1

Packaging

Packing instructions

P001, IBC03, LP01, R001

Special packing provisions

PP1

Mixed packing provisions

MP19

Portable tanks and bulk containers

Guidelines

T2

Special provisions

TP1, TP29

ADR tank

Tank code

LGBF

Vehicles for tank carriage

FL

Transport category

3

Tunnel restriction code

(D/E)

Special provision for

packages

V12

operation

S2

Railway transport - RID

Special provisions

163, 640E, 650, 367

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

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SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council 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

cobalt bis(2-ethylhexanoate)

Restriction	Conditions of restriction
30	Without prejudice to the other parts of this Annex the following shall apply to entries 28 to 30: 1. Shall not be placed on the market, or used, — as substances, — as constituents of other substances, or, — in mixtures, for supply to the general public when the individual concentration in the substance or mixture is equal to or greater than: — either the relevant specific concentration limit specified in Part 3 of Annex VI to Regulation (EC) No 1272/2008, or, — the relevant generic concentration limit specified in Part 3 of Annex I of Regulation (EC) No 1272/2008. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of such substances and mixtures is marked visibly, legibly and indelibly as follows: "Restricted to professional users". 2. By way of derogation, paragraph 1 shall not apply to: (a) medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/EC; (b) cosmetic products as defined by Directive 76/768/EEC; (c) the following fuels and oil products: — motor fuels which are covered by Directive 98/70/EC, — mineral oil products intended for use as fuel in mobile or fixed combustion plants, — fuels sold in closed systems (e.g. liquid gas bottles); (d) artists' paints covered by Regulation (EC) No 1272/2008; (e) the substances listed in Appendix 11, column 1, for the applications or uses listed in Appendix 11, column 2. Where a date is specified in column 2 of Appendix 11, the derogation shall apply until the said date. (f) devices covered by Regulation (EU) 2017/745.

15.2. Chemical safety assessment

not available

SECTION 16: Other information

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

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
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.

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H351	Suspected of causing cancer if inhaled.
H360Fd	May damage fertility. Suspected of damaging the unborn child.
H361d	Suspected of damaging the unborn child.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H372	Causes damage to the central nervous system, the respiratory tract (inhalation) through prolonged or repeated exposure.
H372	Causes damage to the gastrointestinal tract through prolonged or repeated exposure.
H373	May cause damage to the central nervous system, the respiratory tract (inhalation) through prolonged or repeated exposure.
H373	May cause damage to the gastrointestinal tract through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful 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.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
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.
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.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P103	Read label before use.
P403+P235	Store in a well-ventilated place. Keep cool.

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

EUH066	Repeated exposure may cause skin dryness or cracking.
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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 ₅₀	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EL ₅₀	Effective Loading for 50% of the tested organisms
EmS	Emergency plan
ES	Identification code for each substance listed in EINECS
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

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ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population
LL ₅₀	Lethal Loading for 50% of tested organisms
LOAEL	Lowest observed adverse effect level
log K _{ow}	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution from Ships
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
NOELR	No Observed Effect Loading Rate
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
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 Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
Repr.	Reproductive toxicity
Resp. Sens.	Respiratory sensitization
Skin Irrit.	Skin irritation
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.

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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.