

		SAFETY DATA SHEET according to Regulation (EC) No 1907/2006 (REACH) as amended			
U2074 Polyurethane gloss top two-pack paint AXAPUR					
Creation date		19th January 2017		Version	
Revision date		22nd August 2024		2.0	

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

1.1. Product identifier
 Substance / mixture U2074 Polyurethane gloss top two-pack paint AXAPUR
 Number mixture
 UFI U2074: -AXR....; B-V....; Z1R7046
 9TSQ-A4J7-K106-4P2T
 Other mixture names
 U2074 Polyuretanová lesklá dvousložková vrchní barva AXAPUR

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

AXAPUR U2074 is designed for final gloss surface finish of products, for which the emphasis is placed on the high resistance to weather conditions, UV radiation, abrasion, effects of common detergents.

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 Irrit. 2, H315
 Skin Sens. 1A, H317
 Eye Irrit. 2, H319
 STOT SE 3, H335
 STOT RE 2, H373 (central nervous system)
 Aquatic Chronic 2, H411

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. May cause respiratory irritation. Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.

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2.2. Label elements

Hazard pictogram



Signal word

Warning

Hazardous substances

Technical xylene (mixed with ethylbenzene)

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

phthalic anhydride

Hazard statements

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
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

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Density	1-1.3 g/cm ³ at 23 °C (manufacturer's methodology B5/TD1-5 (ČSN EN ISO 2811-2))
VOC	0,469 kg/kg
TOC	0,458 kg/kg
Dry matter	50-70 % 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. 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

Top paint AXAPUR U2074 is a dispersion of pigments in a solution of saturated polyester resins in organic solvents.

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

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
EC: 905-588-0 Registration number: 01-2119539452-40	Technical xylene (mixed with ethylbenzene)	21-24	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Acute Tox. 4, H312+H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Specific concentration limit: STOT RE 2, H373 (central nervous system): C ≥ 10 % ATE Dermal = 1100 mg/kg bw ATE Inhalation (vapor) = 11 mg/l	5
Index: 022-006-00-2 CAS: 13463-67-7 EC: 236-675-5 Registration number: 01-2119489379-17	titanium dioxide	≤18		2, 3, 4
CAS: 14807-96-6 EC: 238-877-9	talc (Mg3H2(SiO3)4)	≤13,2	not classified as dangerous	
Index: 013-002-00-1 CAS: 7429-90-5 EC: 231-072-3 Registration number: 01-2119529243-45	aluminium powder (stabilised)	<6	Flam. Sol. 1, H228 Water-react. 2, H261	1
Index: 607-195-00-7 CAS: 108-65-6 EC: 203-603-9 Registration number: 01-2119475791-29	2-methoxy-1-methylethyl acetate	4-7	Flam. Liq. 3, H226 STOT SE 3, H336	5
CAS: 64742-16-1 EC: 265-116-8 Registration number: 01-2119510128-50	Petroleum resins	3-6	Aquatic Chronic 4, H413	

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 607-025-00-1 CAS: 123-86-4 EC: 204-658-1 Registration number: 01-2119485493-29	n-butyl acetate	3-6	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	5
Index: 649-327-00-6 EC: 918-481-9 Registration number: 01-2119457273-39	hydrocarbons, C10-C13, n-alanes, isolakanes, cyclics, <2% aromatics	2-5	Asp. Tox. 1, H304 EUH066	6
EC: 919-857-5 Registration number: 01-2119463258-33	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	2-5	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336 EUH066	5, 6
CAS: 1309-37-1 EC: 215-168-2 Registration number: 01-2119457614-35-0000	diiron trioxide	≤3,3	not classified as dangerous	
CAS: 51274-00-1 EC: 257-098-5 Registration number: 01-2119457554-33	Iron hydroxide oxide yellow	≤2,1	not classified as dangerous	
CAS: 1333-86-4 EC: 215-609-9 Registration number: 01-2119384822-32	carbon black	≤1,6		
CAS: 1065336-91-5 EC: 915-687-0 Registration number: 01-2119491304-40-0003	Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	≤1	Skin Sens. 1A, H317 Repr. 2, H361f Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	6
CAS: 61790-69-0 EC: 263-160-2	Fatty acids, tall-oil, reaction products with diethylenetriamine	≤0,28	Acute Tox. 4, H302 Skin Corr. 1B, H314 STOT RE 2, H373 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	
Index: 607-009-00-4 CAS: 85-44-9 EC: 201-607-5 Registration number: 01-2119457017-41	phthalic anhydride	0,13-0,25	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: 84632-65-5 EC: 401-540-3 Registration number: 01-0000015139-70-xxxx	C.I. PIGMENT Red 254	≤0,12	not classified as dangerous	

Notes

- Note T: This substance may be marketed in a form which does not have the physical hazards as indicated by the classification in the entry in Part 3. If the results of the relevant method or methods in accordance with Part 2 of Annex I of this Regulation show that the specific form of substance marketed does not exhibit this physical property or these physical hazards, the substance shall be classified in accordance with the result or results of this test or these tests. Relevant information, including reference to the relevant test method(s) shall be included in the safety data sheet.

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- 2 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.
- 3 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.

- 4 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.
- 5 A substance for which exposure limits are set.
- 6 Substance of unknown or variable composition, complex reaction products or biological materials - UVCB.

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

SECTION 4: First aid measures

4.1. Description of first aid measures

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

If inhaled

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

If on skin

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

If in eyes

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

If swallowed

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

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

If inhaled

May cause respiratory irritation.

If on skin

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.

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5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes. No smoking. 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
2,5 kg	can / tin	FE
5 kg	can / tin	FE
10 kg	bucket	FE
16 kg	bucket	FE
20 kg	bucket	FE
0,8 l	can / tin	FE
1 l	can / tin	FE
3,2 l	can / tin	FE
4 l	can / tin	FE
7,2 l	bucket	FE
8 l	bucket	FE
9 l	bucket	FE
18 l	bucket	FE
0,8 kg	can / tin	FE



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Storage class

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

Storage temperature

+5 to +25 °C

The specific requirements or rules relating to the substance/mixture

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

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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

European Union

Commission Directive (EU) 2019/1831

Substance name (component)	Type	Value	Note
n-butyl acetate (CAS: 123-86-4)	OEL 8 hours	241 mg/m³	
	OEL 8 hours	50 ppm	
	OEL 15 minutes	723 mg/m³	
	OEL 15 minutes	150 ppm	

European Union

Commission Directive 2000/39/EC

Substance name (component)	Type	Value	Note
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	OEL 8 hours	275 mg/m³	Skin
	OEL 8 hours	50 ppm	
	OEL 15 minutes	550 mg/m³	
	OEL 15 minutes	100 ppm	

European Union

Commission Directive 91/322/EEC

Substance name (component)	Type	Value	Note
Technical xylene (mixed with ethylbenzene)	OEL 8 hours	442 mg/m³	
	OEL 8 hours	100 ppm	
	OEL 15 minutes	884 mg/m³	
	OEL 15 minutes	200 ppm	
	OEL 8 hours	221 mg/m³	
	OEL 8 hours	50 ppm	
	OEL 15 minutes	442 mg/m³	
	OEL 15 minutes	100 ppm	
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	OEL 8 hours	1200 mg/m³	
	OEL 15 minutes	197 ppm	

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DNEL

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

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

C.I. PIGMENT Red 254					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	1.25 mg/m ³	Chronic effects local		BL dodavatele
Consumers	Inhalation	10 mg/m ³	Chronic effects local		BL dodavatele

carbon black					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	2 mg/m ³	Acute effects local		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	Chronic effects systemic		BL dodavatele
Workers	Inhalation	871 mg/m ³	Chronic effects systemic		BL dodavatele
Consumers	Dermal	125 mg/kg bw/day	Chronic effects systemic		BL dodavatele
Consumers	Inhalation	185 mg/m ³	Chronic effects systemic		BL dodavatele
Consumers	Oral	125 mg/m ³	Chronic effects systemic		BL dodavatele

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

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

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

Petroleum resins					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Consumers	Oral	19 mg/kg bw/day			BL dodavatele

phthalic anhydride					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Dermal	10 mg/kg	Chronic effects systemic		BL dodavatele
Workers	Inhalation	32.3 mg/m ³	Chronic effects systemic		BL dodavatele
Consumers	Dermal	5 mg/kg	Chronic effects systemic		BL dodavatele
Consumers	Inhalation	8.6 mg/m ³	Chronic effects systemic		BL dodavatele
Consumers	Oral	5 mg/kg	Chronic effects systemic		BL dodavatele

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	1.27 mg/m ³	Chronic effects systemic		BL dodavatele
Workers	Dermal	1.8 mg/kg bw/day	Chronic effects systemic		BL dodavatele
Consumers	Inhalation	0.31 mg/m ³	Chronic effects systemic		BL dodavatele
Consumers	Dermal	0.9 mg/kg bw/day	Chronic effects systemic		BL dodavatele
Consumers	Oral	0.18 mg/kg bw/day	Chronic effects systemic		BL dodavatele

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

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

PNEC

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

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

C.I. PIGMENT Red 254			
Route of exposure	Value	Value determination	Source
Freshwater environment	0.499 mg/l		BL dodavatele
Water (intermittent release)	0.499 mg/l		BL dodavatele
Marine water	0.499 mg/l		BL dodavatele
Microorganisms in sewage treatment	1 mg/l		BL dodavatele
Sea sediments	668 mg/l		BL dodavatele
Freshwater sediment	668 mg/l		BL dodavatele

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Route of exposure	Value	Value determination	Source
Soil (agricultural)	1 mg/l		BL dodavatele

carbon black

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

n-butyl acetate

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

phthalic anhydride

Route of exposure	Value	Value determination	Source
Freshwater environment	1 mg/l		BL dodavatele
Marine water	0.1 mg/l		BL dodavatele
Microorganisms in sewage treatment	10 mg/l		BL dodavatele
Freshwater sediment	3.8 mg/kg of dry substance of sediment		BL dodavatele
Sea sediments	0.38 mg/kg of dry substance of sediment		BL dodavatele
Soil (agricultural)	0.173 mg/kg of dry substance of soil		BL dodavatele
Water (intermittent release)	5.6 mg/l		BL dodavatele

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Route of exposure	Value	Value determination	Source
Freshwater environment	0.0022 mg/l		BL dodavatele
Marine water	0.00022 mg/l		BL dodavatele
Freshwater sediment	1.05 mg/kg		BL dodavatele
Sea sediments	0.11 mg/kg		BL dodavatele
Soil (agricultural)	0.21 mg/kg		BL dodavatele
Microorganisms in sewage treatment	1 mg/l		BL dodavatele
Water (intermittent release)	0.009 mg/l		

Technical xylene (mixed with ethylbenzene)

Route of exposure	Value	Value determination	Source
Freshwater environment	0.327 mg/l		BL dodavatele

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Technical xylene (mixed with ethylbenzene)			
Route of exposure	Value	Value determination	Source
Marine water	0.327 mg/l		BL dodavatele
Soil (agricultural)	2.31 mg/kg of dry substance of soil		BL dodavatele
Food chain	0.327 mg/l		BL dodavatele
Microorganisms in sewage treatment	6.58 mg/l		BL dodavatele
Sea sediments	12.46 mg/kg of dry substance of sediment		BL dodavatele
Freshwater sediment	12.46 mg/kg of dry substance of sediment		BL dodavatele

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

8.2. Exposure controls

Take off contaminated clothing and wash before reuse. Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles.

Skin protection

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

Respiratory protection

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

Thermal hazard

Not available.

Environmental exposure controls

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

liquid

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Colour	colourless, white, black, red, brown, blue, orange, silver, grey, green, yellow, mixture containing generic product identifier 'colorant', by shades
Odour	after organic solvents
Melting point/freezing point	data not available
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	-66 °C (BL dodavatele)
aluminium powder (stabilised) (CAS: 7429-90-5)	660 °C (ECHA)
C.I. PIGMENT Red 254 (CAS: 84632-65-5)	>300 °C (BL dodavatele)
carbon black (CAS: 1333-86-4)	3652-3697 °C (BL dodavatele)
diiron trioxide (CAS: 1309-37-1)	>1000 °C (BL dodavatele)
hydrocarbons, C10-C13, n-alkanes, isolakanes, cyclics, <2% aromatics	<-20 °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)
talc (Mg3H2(SiO3)4) (CAS: 14807-96-6)	>1300 °C (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	-94.96-13.2 °C (BL dodavatele)
titanium dioxide (CAS: 13463-67-7)	>1560 °C (BL dodavatele)
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)
aluminium powder (stabilised) (CAS: 7429-90-5)	2450 °C (ECHA)
hydrocarbons, C10-C13, n-alkanes, isolakanes, cyclics, <2% aromatics	160-245 °C (BL dodavatele)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	154-193 °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)
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (CAS: 1065336-91-5)	>300 °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)
Flammability	Flammable liquid of risk class II (ČSN 65 0201)
n-butyl acetate (CAS: 123-86-4)	inflammable (odvozeno od bodu vzplanutí)
Technical xylene (mixed with ethylbenzene)	inflammable (BL dodavatele)
Lower and upper explosion limit	
bottom	0.6 % (for hydrocarbons, C10-C13, n-alkanes, isolakanes, cyclics, <2% aromatics)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	1.5 % (BL dodavatele)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	0.7 % (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	1.2 % (literatura)
Technical xylene (mixed with ethylbenzene)	0.8 % (BL dodavatele)
upper	12.7 % (for 2-ethylhexan-1-ol)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	7.0 % (BL dodavatele)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	6 % (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	7.6 % (literatura)
Technical xylene (mixed with ethylbenzene)	7 % (BL dodavatele)
Flash point	28.5 °C (PND EN 456)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	45 °C (BL dodavatele)
carbon black (CAS: 1333-86-4)	>600 °C (BL dodavatele)
hydrocarbons, C10-C13, n-alkanes, isolakanes, cyclics, <2% aromatics	>61 °C (BL dodavatele)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	41 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	27 °C (BL dodavatele)

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Petroleum resins (CAS: 64742-16-1)	260 °C (BL dodavatele)
phthalic anhydride (CAS: 85-44-9)	152 °C (BL dodavatele)
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (CAS: 1065336-91-5)	209.5 °C (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	18-32 °C (BL dodavatele)
Auto-ignition temperature	data not available
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	333 °C (BL dodavatele)
carbon black (CAS: 1333-86-4)	>140 °C (BL dodavatele)
hydrocarbons, C10-C13, n-alkanes, isolakanes, cyclics, <2% aromatics	>200 °C (BL dodavatele)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	237 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	415 °C (BL dodavatele)
Petroleum resins (CAS: 64742-16-1)	640 °C (BL dodavatele)
phthalic anhydride (CAS: 85-44-9)	580 °C (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	432-528 °C (BL dodavatele)
Decomposition temperature	data not available
Iron hydroxide oxide yellow (CAS: 51274-00-1)	180 °C (BL dodavatele)
talc (Mg3H2(SiO3)4) (CAS: 14807-96-6)	>1000 °C (BL dodavatele)
pH	non-soluble (in water)
C.I. PIGMENT Red 254 (CAS: 84632-65-5)	6.5-9.5 (5% solution) (BL dodavatele)
carbon black (CAS: 1333-86-4)	6-11 (3% solution) (BL dodavatele)
diiron trioxide (CAS: 1309-37-1)	5-8 (5% solution) (BL dodavatele)
Iron hydroxide oxide yellow (CAS: 51274-00-1)	4.5-7.5 (0.005% solution) (BL dodavatele)
talc (Mg3H2(SiO3)4) (CAS: 14807-96-6)	9-9.5 (10% solution) (BL dodavatele)
Kinematic viscosity	>20.5 mm²/s at 40 °C
Kinematic viscosity	data not available
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	1.23 mm²/s at 40 °C (BL dodavatele)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	1.02 mm²/s at 40 °C (BL dodavatele)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	1.35 mm²/s at 20 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	0.83 mm²/s at 20 °C (BL dodavatele)
Solubility in water	data not available
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	247 g/l (BL dodavatele)
aluminium powder (stabilised) (CAS: 7429-90-5)	20 µg/l při 20°C (ECHA)
C.I. PIGMENT Red 254 (CAS: 84632-65-5)	<0.499 mg/l (BL dodavatele)
Iron hydroxide oxide yellow (CAS: 51274-00-1)	insoluble (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	5.3 g/l při 20 °C (pH 6) (BL dodavatele)
Petroleum resins (CAS: 64742-16-1)	insoluble (BL dodavatele)
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (CAS: 1065336-91-5)	21.5-29.8 mg/l (21 °C) (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	146-190.7 mg/l při 25 °C (BL dodavatele)
titanium dioxide (CAS: 13463-67-7)	soluble (BL dodavatele)
Solubility in fats	data not available
Partition coefficient n-octanol/water (log value)	LogPow -0.46 to 6.98 (for the substances contained)
C.I. PIGMENT Red 254 (CAS: 84632-65-5)	3 (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	2.3 (BL dodavatele)
Vapour pressure	0.00002 hPa to 42 hPa at 20 °C (for the substances contained)
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	355 at 20 °C (BL dodavatele)
aluminium powder (stabilised) (CAS: 7429-90-5)	0.13-1300 Pa at 974 °C (ECHA)
hydrocarbons, C10-C13, n-alkanes, isolakanes, cyclics, <2% aromatics	<0.1 kPa at 20 °C (BL dodavatele)

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Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	20 hPa 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)
Technical xylene (mixed with ethylbenzene)	650-944 Pa (BL dodavatele)
Density and/or relative density	
Density	1-1.3 g/cm ³ at 23 °C (manufacturer's methodology B5/TD1-5 (ČSN EN ISO 2811-2))
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	0.964 g/cm ³ at 25 °C (BL dodavatele)
aluminium powder (stabilised) (CAS: 7429-90-5)	2.7 g/cm ³ at 20 °C (ECHA)
C.I. PIGMENT Red 254 (CAS: 84632-65-5)	1.58 g/cm ³ at 20 °C (BL dodavatele)
carbon black (CAS: 1333-86-4)	1.7-1.9 g/cm ³ at 20 °C (BL dodavatele)
hydrocarbons, C10-C13, n-alkanes, isoalkanes, 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)
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)
Petroleum resins (CAS: 64742-16-1)	1.06 g/cm ³ at 20 °C (BL dodavatele)
phthalic anhydride (CAS: 85-44-9)	1.527 g/cm ³ at 20 °C (BL dodavatele)
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (CAS: 1065336-91-5)	0.993 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)
Relative density	data not available
Relative vapour density	data not available
Particle characteristics	data not available
Form	liquid: viscous
9.2. Other information	
Evaporation rate	data not available
Appearance	medium-viscous coating material without extraneous mechanical impurities, the formation of a stirrable deposit and disintegration of the binder is allowed (manufacturer's methodology B5/TD1-17 (ČSN EN ISO 1513))
Combustion temperature	116 °C (ČSN EN ISO 2592)
Oxidising properties	It is not oxidising.
Explosive properties	data not available
Vapour density	data not available
Content of organic solvents (VOC)	0.469 kg/kg (calculation)
Total organic carbon (TOC)	0.458 kg/kg (calculation)
Solid content (dry matter)	50-70 % volume (manufacturer's methodology B5/TD1-12A nebo B5/TD1-12B (ČSN EN ISO 3251))
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)

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.

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10.4. Conditions to avoid

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

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

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

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.

Acute toxicity

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

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Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	ATE		149000 mg/kg				Calculation of value	
Dermal	ATE		4803 mg/kg				Calculation of value	
Inhalation (vapor)	ATE		49.09 mg/l				Calculation of value	

2-methoxy-1-methylethyl acetate								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀	OECD 401	6190 mg/kg		Rat (Rattus norvegicus)	F/M		BL dodavatele
Inhalation	LC ₀		>23.5 mg/l	6 hours	Rat (Rattus norvegicus)			BL dodavatele
Dermal	LD ₅₀	OECD 402	>5000 mg/kg		Rat (Rattus norvegicus)			BL dodavatele
Inhalation (gases)	LC ₅₀	OECD 403	>2000 ppm	3 hours	Rat (Rattus norvegicus)	M		BL dodavatele

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

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

carbon black								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀	OECD 401	>8000 mg/kg		Rat			BL dodavat ele
Inhalation	LC ₀		4.6 mg/m³	4 hours	Rat			BL dodavat ele
Inhalation	NOAEL		1.1 mg/m³	13 weeks	Rat			BL dodavat ele

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

hydrocarbons, C10-C13, n-alanes, isolakanes, cyclics, <2% aromatics								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
	EC ₅₀		5 mg/l of air	72 hours	Rat			ECHA
Dermal	LD ₅₀	OECD 402	>5000 mg/kg	72 hours	Rabbit			BL dodavat ele
Inhalation (vapor)	LC ₅₀	OECD 403	>5000 mg/m³	4 hours	Rat			BL dodavat ele
Oral	LD ₅₀	OECD 401	>5000 mg/kg		Rat			BL dodavat ele

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀	OECD 401	>5000 mg/kg		Rat			BL dodavat ele

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Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Inhalation	LC ₅₀	OECD 403	5000 mg/m ³	4 hours	Rat			BL dodavatele
Dermal	LD ₅₀	OECD 402	>5000 mg/kg		Rabbit			BL dodavatele

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

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

Petroleum resins								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Dermal	LD ₅₀		>2000 mg/kg		Rabbit			BL dodavatele
Oral	LD ₅₀		>5000 mg/kg		Rat			BL dodavatele

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

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Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀	OECD 401	3230 mg/kg		Rat (Rattus norvegicus)			BL dodavatele
Dermal	LD ₅₀	OECD 402	>3170 mg/kg		Rat (Rattus norvegicus)			

Technical xylene (mixed with ethylbenzene)

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		3523 mg/kg bw		Rat			ECHA
Inhalation (vapor)	LD ₅₀		6350 ppm	4 hours	Rat			ECHA
Dermal	LD ₅₀		12126 mg/kg bw		Rabbit			ECHA
Oral	NOAEL		150 mg/kg bw		Rat			ECHA
Oral	LOAEL		150 mg/kg bw		Rat			ECHA
Dermal	ATE		1100 mg/kg bw					
Inhalation (vapor)	ATE		11 mg/l					

titanium dioxide

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

Skin corrosion/irritation

Causes skin irritation.

2-methoxy-1-methylethyl acetate

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

C.I. PIGMENT Red 254

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

hydrocarbons, C10-C13, n-alanes, isolakanes, cyclics, <2% aromatics

Route of exposure	Result	Method	Exposure time	Species	Source
Oral	Negative, Slightly irritating	OECD 404			

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

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

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

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

talc (Mg3H2(SiO3)4)

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

Irritation

C.I. PIGMENT Red 254

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

Serious eye damage/irritation

Causes serious eye irritation.

2-methoxy-1-methylethyl acetate

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

C.I. PIGMENT Red 254

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

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

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

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

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

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

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

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Respiratory or skin sensitisation
 May cause an allergic skin reaction.

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

C.I. PIGMENT Red 254						
Route of exposure	Result	Method	Exposure time	Species	Sex	Source
	Not sensitizing			Guinea-pig (Cavia aperea f. porcellus)		BL dodavatele

hydrocarbons, C10-C13, n-alanes, isolakanes, cyclics, <2% aromatics						
Route of exposure	Result	Method	Exposure time	Species	Sex	Source
	Negative					

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate						
Route of exposure	Result	Method	Exposure time	Species	Sex	Source
Dermal	Sensitizing			Guinea-pig (Cavia aperea f. porcellus)		BL dodavatele

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

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

hydrocarbons, C10-C13, n-alanes, isolakanes, cyclics, <2% aromatics						
Result	Method	Exposure time	Specific target organ	Species	Sex	Source
Negative	OECD 471					

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

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

2-methoxy-1-methylethyl acetate								
Route of exposure	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
Inhalation	NOAEL		≥11.07 mg/l	24 months (6 hour/day, 5 days/week)		Rat (Rattus norvegicus)	F/M	BL dodavatele

hydrocarbons, C10-C13, n-alanes, isolakanes, cyclics, <2% aromatics								
Route of exposure	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
Oral		OECD 453			Negative			

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

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

C.I. PIGMENT Red 254							
Effect	Parameter	Method	Value	Result	Species	Sex	Source
				Negative			BL dodavatele

hydrocarbons, C10-C13, n-alanes, isolakanes, cyclics, <2% aromatics							
Effect	Parameter	Method	Value	Result	Species	Sex	Source
		OECD 413		Negative			

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

Toxicity for specific target organ - single exposure
May cause respiratory irritation.

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

hydrocarbons, C10-C13, n-alanes, isolakanes, cyclics, <2% aromatics						
Route of exposure	Parameter	Value	Result	Species	Sex	Source
			Negative			

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

Toxicity for specific target organ - repeated exposure

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

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

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics							
Route of exposure	Parameter	Method	Value	Result	Species	Sex	Source
Oral		OECD 408		Negative			

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics							
Route of exposure	Parameter	Method	Value	Result	Species	Sex	Source
		OECD 408		Negative			BL dodavatele

Repeated dose toxicity

2-methoxy-1-methylethyl acetate								
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Inhalation	NOAEL			1000 ppm		Rat		echa
Dermal	NOAEL			1000-1838 mg/kg bw/day		Rabbit		echa
Oral	NOAEL		OECD 422	1000 mg/kg		Rat (Rattus norvegicus)	F/M	BL dodavatele

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

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics								
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL			500-5000 mg/kg bw/day		Rat		ECHA
Inhalation	NOAEL			200 ppm		Rat		ECHA

Petroleum resins								
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Dermal	NOAEL			>494 mg/kg		Rabbit		BL dodavatele

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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

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

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

11.2. Information on other hazards
 The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 12: Ecological information

12.1. Toxicity
 Toxic to aquatic life with long lasting effects.
Acute toxicity

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

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

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

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

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

hydrocarbons, C10-C13, n-alanes, isolakanes, cyclics, <2% aromatics						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LL ₀		1000 mg/l	96 hours	Fish (Oncorhynchus mykiss)		BL dodavatel e
EL ₀		1000 mg/l	48 hours	Daphnia (Daphnia magna)		BL dodavatel e
EL ₀		1000 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)		BL dodavatel e

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Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics						
Parameter	Method	Value	Exposure time	Species	Environment	Source
EL ₅₀		>1000 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)		BL dodavatel e
EL ₀		1000 mg/l	48 hours	Daphnia (Daphnia magna (Hrotnatka velká))		BL dodavatel e
LL ₅₀		>1000 mg/l	96 hours	Fish (Oncorhynchus mykiss)		BL dodavatel e
NOELR		100 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)		BL dodavatel e

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

n-butyl acetate						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		18 mg/l	96 hours	Fish (Pimephales promelas)		BL dodavatel e
EC ₅₀		44 mg/l	48 hours	Aquatic invertebrates (Daphnia sp.)		BL dodavatel e
EC ₅₀		397 mg/l	72 hours	Algae and other aquatic plants (Pseudokirchneriella subcapitata)		BL dodavatel e
EC ₅₀		356 mg/l	40 hours	Microorganisms (Tetrahymena pyriformis)		BL dodavatel e
EC ₅₀	OECD 208	>1000 mg/kg	14 days	Algae (Selenastrum capricornutum)		BL dodavatel e

Petroleum resins						
Parameter	Method	Value	Exposure time	Species	Environment	Source
NOEL		1 mg/l	72 hours	Algae (Raphidocelis subcapitata)		BL dodavatel e
NOEL		0.3 mg/l	48 hours	Daphnia (Daphnia magna)		BL dodavatel e

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Petroleum resins						
Parameter	Method	Value	Exposure time	Species	Environment	Source
NOEL		2 mg/l	96 hours	Fish (Oncorhynchus mykiss)		BL dodavatel e

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

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀	OECD 203	0.9 mg/l	96 hours	Fish (Brachydanio rerio)		BL dodavatel e
EC ₅₀	OECD 201	1.68 mg/l	72 hours	Algae and other aquatic plants (Desmodesmus subspicatus)		BL dodavatel e
EC ₂₀	OECD 209	100 mg/l	3 hours	Microorganisms	Activated sludge	BL dodavatel e

talc (Mg3H2(SiO3)4)						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		>100000 mg/l	24 hours	Fish (Oncorhynchus mykiss)		výrobce
LC ₅₀		94983.781 mg/kg	48 hours	Crustaceans		výrobce
LC ₅₀		48545.539 mg/l		Algae (Selenastrum capricornutum)		výrobce

Technical xylene (mixed with ethylbenzene)						
Parameter	Method	Value	Exposure time	Species	Environment	Source
EC ₅₀		96 mg/l	24 hours	Microorganisms (Photobacterium phosphoreum)		ECHA
EC ₅₀		2.2 mg/l	73 hours	Algae (Selenastrum capricornutum)		ECHA
IC ₅₀		1 mg/l	24 hours	Aquatic invertebrates		ECHA

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Technical xylene (mixed with ethylbenzene)						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		2.6 mg/l	4 days	Fish (Oncorhynchus mykiss)		ECHA

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

Chronic toxicity

2-methoxy-1-methylethyl acetate						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		63.5 mg/l	14 days	Fish (Oncorhynchus mykiss)		echa

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

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

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate						
Parameter	Method	Value	Exposure time	Species	Environment	Source
NOEC	OECD 211	1 mg/l	21 days	Daphnia (Daphnia magna)		BL dodavatel e

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

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12.2. Persistence and degradability

Data for the mixture are not available.

Half-life time

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate			
Route of exposure	Value	Value determination	Source
Drinking water	51 days		BL dodavatele

Biodegradability

hydrocarbons, C10-C13, n-alanes, isolakanes, cyclics, <2% aromatics						
Parameter	Method	Value	Exposure time	Environment	Result	Source
Degradovaný podíl	OECD 301F	80 %	28 days	Fresh water	Easily biodegradable	BL dodavatele

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics						
Parameter	Method	Value	Exposure time	Environment	Result	Source
		80 %	28 days		Easily biodegradable	BL dodavatele

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate						
Parameter	Method	Value	Exposure time	Environment	Result	Source
					Hardly biodegradable	BL dodavatele
DOC	OECD 301F	38 %	28 days			BL dodavatele

12.3. Bioaccumulative potential

Data for the mixture are not available.

Petroleum resins						
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]	Source
Log Pow	≥4					BL dodavatele

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate						
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]	Source
BCF	<9.7	8 days	Fish (Cyprinus carpio)			BL dodavatele
Log Koc	5.31 mg/kg					BL dodavatele

12.4. Mobility in soil

No data are available for either the mixture or the components.

12.5. Results of PBT and vPvB assessment

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

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12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

Waste management legislation

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

Waste type code

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

Packaging waste type code

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

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

SECTION 14: Transport information

14.1. UN number or ID number

UN 1263

14.2. UN proper shipping name

PAINT

14.3. Transport hazard class(es)

3 Flammable liquids

14.4. Packing group

III

14.5. Environmental hazards

Yes.

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

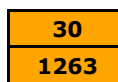
Additional information

Hazard identification No.

UN number

Classification code

Safety signs



F1

3+hazardous for the environment



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Road transport - ADR

Special provisions	163, 367, 650
Limited quantities	5 L
Excepted quantities	E1

Packaging

Packing instructions	P001, IBC03, LP01, R001
Special packing provisions	PP1
Mixed packing provisions	MP19

Portable tanks and bulk containers

Guidelines	T2
Special provisions	TP1, TP29

ADR tank

Tank code	LGBF
Vehicles for tank carriage	FL
Transport category	3
Tunnel restriction code	(D_E)

Special provision for

packages	V12
operation	S2

Railway transport - RID

Special provisions	163, 367, 650
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	W12
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Air transport - ICAO/IATA

Packaging instructions for limited amount	Y344
Packaging instructions passenger	355
Cargo packaging instructions	366

Marine transport - IMDG

EmS (emergency plan)	F-E, S-E
MFAG	310

SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

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

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SECTION 16: Other information

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

H226	Flammable liquid and vapour.
H228	Flammable solid.
H261	In contact with water releases flammable gases.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H373	May cause damage to the central nervous system 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.
H413	May cause long lasting harmful effects to aquatic life.
H312+H332	Harmful in contact with skin or if inhaled.

Guidelines for safe handling used in the safety data sheet

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

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

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EC	Identification code for each substance listed in EINECS
EC ₀	Concentration of a substance when it is affected 0% of the population
EC ₁₀	Concentration of a substance when it is affected 10% of the population
EC ₂₀	Concentration of a substance when it is affected 20% of the population
EC ₅₀	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EL ₀	Effective Loading for 0% of the tested organisms
EL ₅₀	Effective Loading for 50% of the tested organisms
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC ₅₀	Concentration causing 50% blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC ₀	Lethal concentration of a substance in which it can be expected death of 0% of the population
LC ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population
LL ₀	Lethal Loading for 0% of tested organisms
LL ₅₀	Lethal Loading for 50% of tested organisms
LOAEL	Lowest observed adverse effect level
log K _{ow}	Octanol-water partition coefficient
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
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
Eye Dam.	Serious eye damage
Flam. Liq.	Flammable liquid
Flam. Sol.	Flammable solid
Repr.	Reproductive toxicity
Resp. Sens.	Respiratory sensitization

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Skin Corr.	Skin corrosion
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure
Water-react.	Substance or mixture which in contact with water emits flammable gas

Training guidelines

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

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

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

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

The version 2.0 replaces the SDS version from 19 January 2017. Changes were made in sections 1, 2, 3, 7, 8, 9, 11, 12, 13, 14, 15 and 16.

More information

Classification procedure - calculation method.

Statement

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