

SAFETY DATA SHEET

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



C1036 nitrocellulose primer varnish for furniture PRIMER VARNISH

Creation date	22nd May 2018	Version	3.0
Revision date	17th December 2024		

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

1.1. Product identifier

Substance / mixture	C1036 nitrocellulose primer varnish for furniture PRIMER VARNISH
Number	mixture
UFI	C1036-: A-C0000; Z1C0000
Other mixture names	1CMU-52QQ-4006-FFSV
	C1036 Nitrocelulózový základní lak na nábytek- ZÁKLADNÍ LAK

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

Mixture's intended use

PRIMER VARNISH C1036 is a fast-drying nitrocellulose varnish suitable for filling the pores of wood, especially under nitrocellulose, acrylic or acrylurethane topcoats and paints, and for use in coating wooden furniture and small wooden objects in the interior.

Main intended use

PC-PNT-OTH Other paints and coating materials

Mixture uses advised against

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

1.3. Details of the supplier of the safety data sheet

Manufacturer

Name or trade name	COLORLAK, a.s.
Address	Tovární 1076, Staré Město, 686 03
	Czech Republic
Identification number (CRN)	49444964
VAT Reg No	CZ49444964
Phone	+420 572527111
E-mail	colorlak@colorlak.cz
Web address	www.colorlak.cz

Competent person responsible for the safety data sheet

Name	Ing. Veronika Chytilová
E-mail	chytilova@colorlak.cz

1.4. Emergency telephone number

European emergency number: 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Flam. Liq. 2, H225
Skin Irrit. 2, H315
Eye Dam. 1, H318
STOT SE 3, H336
Repr. 2, H361d
STOT RE 2, H373
Aquatic Chronic 3, H412

Most serious adverse physico-chemical effects

Highly flammable liquid and vapour.

Most serious adverse effects on human health and the environment

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

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2.2. Label elements

Hazard pictogram



Signal word

Danger

Hazardous substances

toluene
n-butyl acetate
2-methylpropan-1-ol

Hazard statements

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs 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.
P201	Obtain special instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.
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.

Requirements for child-resistant fastenings and tactile warning of danger

Container must carry a tactile warning of danger.

2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. Does not contain any PMT or vPvM components.

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

PRIMER VARNISH C1036 is a solution of nitrocellulose and synthetic resins in organic solvents with the addition of plasticizers and additives.

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

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 601-021-00-3 CAS: 108-88-3 EC: 203-625-9 Registration number: 01-2119471310-51	toluene	40-45	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Repr. 2 (**), H361d STOT RE 2 (**), H373	2, 3, 5
Index: 607-025-00-1 CAS: 123-86-4 EC: 204-658-1 Registration number: 01-2119485493-29	n-butyl acetate	15-20	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	2
CAS: 9004-70-0 EC: 682-719-5	Nitrocellulose, nitrogen content $\leq 12,6\%$	≤ 10	Expl. 1.1, H201	1
Index: 603-108-00-1 CAS: 78-83-1 EC: 201-148-0 Registration number: 01-2119484609-23	2-methylpropan-1-ol	9-10	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335, H336	
Index: 603-002-00-5 CAS: 64-17-5 EC: 200-578-6 Registration number: 01-2119457610-43	ethanol	4-7	Flam. Liq. 2, H225 Eye Irrit. 2, H319	
Index: 606-001-00-8 CAS: 67-64-1 EC: 200-662-2 Registration number: 01-2119471330-49	acetone	4-7	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	2, 4, 5
EC: 905-588-0 Registration number: 01-2119539452-40	Technical xylene (mixed with ethylbenzene)	<0.2	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Acute Tox. 4, H312+H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Specific concentration limit: STOT RE 2, H373 (central nervous system): C $\geq 10\%$ ATE Dermal = 1100 mg/kg bw ATE Inhalation (vapor) = 11 mg/l	2
Index: 607-022-00-5 CAS: 141-78-6 EC: 205-500-4 Registration number: 01-2119475103-46	ethyl acetate	0.1-0.2	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	2

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 607-009-00-4 CAS: 85-44-9 EC: 201-607-5 Registration number: 01-2119457017-41	phthalic anhydride	<0.1	Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318 Resp. Sens. 1, H334 STOT SE 3, H335	

Notes

** another exposure route cannot be ruled out

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

- 1 Note 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.
- 2 A substance for which exposure limits are set.
- 3 The use of the substance is restricted by Annex XVII of REACH Regulation
- 4 Explosive precursor
- 5 Drug precursor

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. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

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

Inhaling vapours can cause corrosion of the breathing system. May cause drowsiness or dizziness.

If on skin

Causes skin irritation.

If in eyes

Causes serious eye damage.

If swallowed

Corrosion of the digestion system can occur.

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4.3. Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Do not expose to sunlight. Store locked up. Keep container tightly closed. Keep cool.

Content	Packaging type	Material of package
0,75 l	can / tin	
9 l	bucket	
18 l	bucket	
170 l	barrel / drum	

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Storage class 8A - Combustible corrosive substances
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) 2017/164

Substance name (component)	Type	Value
ethyl acetate (CAS: 141-78-6)	OEL 8 hours	734 mg/m ³
	OEL 8 hours	200 ppm
	OEL 15 minutes	1468 mg/m ³
	OEL 15 minutes	400 ppm

European Union

Commission Directive (EU) 2019/1831

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

European Union

Commission Directive 2000/39/EC

Substance name (component)	Type	Value
acetone (CAS: 67-64-1)	OEL 8 hours	1210 mg/m ³
	OEL 8 hours	500 ppm

European Union

Commission Directive 2006/15/EC

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

Notes
Skin.

European Union

Commission Directive 91/322/EEC

Substance name (component)	Type	Value
Technical xylene (mixed with ethylbenzene)	OEL 8 hours	442 mg/m ³
	OEL 8 hours	100 ppm
	OEL 15 minutes	884 mg/m ³
	OEL 15 minutes	200 ppm
	OEL 8 hours	221 mg/m ³
	OEL 8 hours	50 ppm
	OEL 15 minutes	442 mg/m ³

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European Union

Commission Directive 91/322/EEC

Substance name (component)	Type	Value
Technical xylene (mixed with ethylbenzene)	OEL 15 minutes	100 ppm

DNEL

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

acetone				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	1210 mg/m ³	Chronic effects systemic	
Workers	Inhalation	2420 mg/m ³	Acute effects local	
Consumers	Dermal	62 mg/kg bw/day	Chronic effects systemic	
Consumers	Inhalation	200 mg/m ³	Chronic effects systemic	
Consumers	Oral	62 mg/kg bw/day	Chronic effects systemic	

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

ethyl acetate				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	734 mg/m ³	Chronic effects systemic	echa
Workers	Dermal	63 mg/kg bw/day	Chronic effects systemic	echa
Consumers	Inhalation	367 mg/m ³	Chronic effects systemic	echa
Consumers	Dermal	37 mg/kg bw/day	Chronic effects systemic	echa
Consumers	Oral	4.5 mg/kg bw/day	Chronic effects systemic	echa

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

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phthalic anhydride				
Workers / consumers	Route of exposure	Value	Effect	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

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

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

PNEC

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

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acetone

Route of exposure	Value	Source
Microorganisms in sewage treatment	100 mg/l	echa
Freshwater environment	10.6 mg/l	
Water (intermittent release)	21 mg/l	
Marine water	1.06 mg/l	
Freshwater sediment	30.4 mg/kg of dry substance	
Sea sediments	3.04 mg/kg of dry substance	
Soil (agricultural)	29.5 mg/kg of dry substance of soil	

ethanol

Route of exposure	Value	Source
Freshwater environment	0.96 mg/l	BL dodavatele
Marine water	0.79 mg/l	BL dodavatele
Water (intermittent release)	2.75 mg/l	echa
Microorganisms in sewage treatment	580 mg/l	BL dodavatele
Freshwater sediment	3.6 mg/kg of dry substance of sediment	echa
Sea sediments	2.9 mg/kg of dry substance of sediment	echa
Soil (agricultural)	0.63 mg/kg	BL dodavatele
Food chain	380-720 mg/kg of food	echa

ethyl acetate

Route of exposure	Value	Source
Freshwater environment	240 µg/l	echa
Marine water	24 µg/l	echa
Water (intermittent release)	1.65 mg/l	echa
Microorganisms in sewage treatment	650 mg/l	echa
Freshwater sediment	1.15 mg/kg of dry substance of sediment	echa
Sea sediments	115 µg/kg	echa
Soil (agricultural)	148 µg/kg	echa
Food chain	200 mg/kg of food	echa

n-butyl acetate

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

phthalic anhydride

Route of exposure	Value	Source
Freshwater environment	1 mg/l	BL dodavatele
Marine water	0.1 mg/l	BL dodavatele

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phthalic anhydride		
Route of exposure	Value	Source
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

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

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

8.2. Exposure controls

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

Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

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.

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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	colourless, Gardner scale 1-7 (manufacturer's methodology B5/TD1-1 (PND 67 3011))
Odour	after organic solvents
Melting point/freezing point	data not available
2-methylpropan-1-ol (CAS: 78-83-1)	<-90 °C (BL dodavatele)
acetone (CAS: 67-64-1)	-94.7 °C (BL dodavatele)
ethanol (CAS: 64-17-5)	-114.15 °C (BL dodavatele)
ethyl acetate (CAS: 141-78-6)	-83 °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)
Technical xylene (mixed with ethylbenzene)	-94.96-13.2 °C (BL dodavatele)
toluene (CAS: 108-88-3)	-95 °C (BL dodavatele)
Boiling point or initial boiling point and boiling range	data not available
2-methylpropan-1-ol (CAS: 78-83-1)	108 °C (BL dodavatele)
acetone (CAS: 67-64-1)	56.05 °C (BL dodavatele)
ethanol (CAS: 64-17-5)	78.3 °C (BL dodavatele)
ethyl acetate (CAS: 141-78-6)	76.5-78 °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)
Technical xylene (mixed with ethylbenzene)	136.2-144.5 °C (BL dodavatele)
toluene (CAS: 108-88-3)	110.6 °C (BL dodavatele)
Flammability	Flammable liquid of risk class I (ČSN 65 0201)
ethanol (CAS: 64-17-5)	inflammable (BL dodavatele)
ethyl acetate (CAS: 141-78-6)	inflammable (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	inflammable (odvozeno od bodu vzplanutí)
Technical xylene (mixed with ethylbenzene)	inflammable (BL dodavatele)
toluene (CAS: 108-88-3)	Flammable liquid of risk class II (BL dodavatele)
Lower and upper explosion limit	
bottom	0.8 % (for Technical xylene (mixed with ethylbenzene))
2-methylpropan-1-ol (CAS: 78-83-1)	1.7 % (BL dodavatele)
acetone (CAS: 67-64-1)	2.5 % (BL dodavatele)
ethanol (CAS: 64-17-5)	3.3 % (BL dodavatele)
ethyl acetate (CAS: 141-78-6)	2 % (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	1.2 % (literatura)
Technical xylene (mixed with ethylbenzene)	0.8 % (BL dodavatele)
toluene (CAS: 108-88-3)	1.3 % (BL dodavatele)
upper	19 % (for Ethanol)
2-methylpropan-1-ol (CAS: 78-83-1)	10.9 % (BL dodavatele)
acetone (CAS: 67-64-1)	14.3 % (BL dodavatele)
ethanol (CAS: 64-17-5)	19 % (BL dodavatele)
ethyl acetate (CAS: 141-78-6)	11.4 % (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	7.6 % (literatura)
Technical xylene (mixed with ethylbenzene)	7 % (BL dodavatele)
toluene (CAS: 108-88-3)	6.7 % (BL dodavatele)

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Flash point	4 °C (PND 67 3015)
2-methylpropan-1-ol (CAS: 78-83-1)	31 °C (BL dodavatele)
acetone (CAS: 67-64-1)	-17 °C (BL dodavatele)
ethanol (CAS: 64-17-5)	12.85 °C (BL dodavatele)
ethyl acetate (CAS: 141-78-6)	-3 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	27 °C (BL dodavatele)
Nitrocellulose, nitrogen content ≤ 12,6% (CAS: 9004-70-0)	12 °C (BL dodavatele)
phthalic anhydride (CAS: 85-44-9)	152 °C (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	18-32 °C (BL dodavatele)
toluene (CAS: 108-88-3)	4.4 °C (BL dodavatele)
Auto-ignition temperature	data not available
2-methylpropan-1-ol (CAS: 78-83-1)	400 °C (BL dodavatele)
acetone (CAS: 67-64-1)	465 °C (BL dodavatele)
ethanol (CAS: 64-17-5)	362.85 °C (BL dodavatele)
ethyl acetate (CAS: 141-78-6)	446 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	415 °C (BL dodavatele)
Nitrocellulose, nitrogen content ≤ 12,6% (CAS: 9004-70-0)	>180 °C (BL dodavatele)
phthalic anhydride (CAS: 85-44-9)	580 °C (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	432-528 °C (BL dodavatele)
toluene (CAS: 108-88-3)	480 °C (BL dodavatele)
Decomposition temperature	data not available
pH	non-soluble (in water)
2-methylpropan-1-ol (CAS: 78-83-1)	7 (undiluted at 20 °C) (BL dodavatele)
ethanol (CAS: 64-17-5)	7 (undiluted at 20 °C) (BL dodavatele)
Kinematic viscosity	>20.5 mm²/s at 40 °C
n-butyl acetate (CAS: 123-86-4)	data not available
Solubility in water	0.83 mm²/s at 20 °C (BL dodavatele)
2-methylpropan-1-ol (CAS: 78-83-1)	not miscible
ethanol (CAS: 64-17-5)	70 g/l (20 °C) (BL dodavatele)
ethyl acetate (CAS: 141-78-6)	789 000 mg/l _t při 20°C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	8.5% při 15°C (BL dodavatele)
Nitrocellulose, nitrogen content ≤ 12,6% (CAS: 9004-70-0)	5.3 g/l při 20 °C (pH 6) (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	insoluble (BL dodavatele)
toluene (CAS: 108-88-3)	146-190.7 mg/l při 25 °C (BL dodavatele)
Partition coefficient n-octanol/water (log value)	573-587 mg/l při 25°C (BL dodavatele)
2-methylpropan-1-ol (CAS: 78-83-1)	LogPow -0.35 to 3.2 (for the substances contained)
Vapour pressure	1 (BL dodavatele)
2-methylpropan-1-ol (CAS: 78-83-1)	6.5 hPa to 240 hPa at 20 °C (for the substances contained)
acetone (CAS: 67-64-1)	16 hPa at 20 °C (BL dodavatele)
ethanol (CAS: 64-17-5)	240 hPa at 20 °C (BL dodavatele)
ethyl acetate (CAS: 141-78-6)	57.26 hPa at 19.65 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	100 hPa at 20 °C (BL dodavatele)
Nitrocellulose, nitrogen content ≤ 12,6% (CAS: 9004-70-0)	12-21 at 20 °C (literatura)
phthalic anhydride (CAS: 85-44-9)	5810 Pa (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	0.0006 hPa at 26.6 °C (BL dodavatele)
toluene (CAS: 108-88-3)	650-944 Pa (BL dodavatele)
Density and/or relative density	3088.9 Pa at 21.1 °C (BL dodavatele)
Density	0.92 g/cm³ at 23 °C (DIN 53217/3)
2-methylpropan-1-ol (CAS: 78-83-1)	0.8017 g/cm³ at 20 °C (BL dodavatele)
acetone (CAS: 67-64-1)	0.790 g/cm³ at 20 °C (BL dodavatele)

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ethanol (CAS: 64-17-5)	0.7844 g/cm ³ at 25 °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)
Technical xylene (mixed with ethylbenzene)	0.862-0.88 g/cm ³ at 25 °C (BL dodavatele)
toluene (CAS: 108-88-3)	0.866 g/cm ³ at 20 °C (BL dodavatele)
Relative vapour density	data not available
Particle characteristics	data not available
Form	liquid

9.2. Other information

Appearance	cloudy liquid with an easily mixed matting agent, without extraneous mechanical impurities (manufacturer's methodology B5/TD1-17 (ČSN EN ISO 1513))
Combustion temperature	6 °C (PND 65 6212)
Ignition temperature	395 °C (PND 33 0371)
Vapour density	> 1 (air = 1)
Content of organic solvents (VOC)	0.830 kg/kg (calculation)
Total organic carbon (TOC)	0.641 kg/kg (calculation)
Solid content (dry matter)	15-19 % weight (manufacturer's methodology B5/TD1-12B (ČSN EN ISO 3251))
Max. VOC content in the product in its ready to use condition	756 g/l (calculation)
Flammability - temperature class: T2 (PND 33 0371); Calorific value: 32,34 MJ/kg (PND 65 6169); Heat of combustion: 34,27 MJ/kg (PND 65 6169).	

SECTION 10: Stability and reactivity

10.1. Reactivity

not available

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

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

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

Acute toxicity

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

C1036 nitrocellulose primer varnish for furniture PRIMER VARNISH								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	ATE		1530153 mg/kg				Calculation of value	

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Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Dermal	ATE		733333 mg/kg				Calculation of value	
Inhalation (vapor)	ATE		7333 mg/l				Calculation of value	

2-methylpropan-1-ol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀	OECD 401	>2000 mg/kg		Rat (Rattus norvegicus)			BL dodavatele
Inhalation (vapor)	LC ₅₀		>18.18 mg/l of air	14 days	Rat (Rattus norvegicus)			BL dodavatele
Dermal	LD ₅₀	OECD 402	>2000 mg/kg		Rabbit			BL dodavatele

acetone

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		5800 mg/kg bw		Rat			
Dermal	LD ₅₀		>15800 mg/kg bw		Rabbit			
Inhalation	LC ₅₀		76 mg/l	4 hours	Rat			

ethanol

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

ethyl acetate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		5620 mg/kg		Rat (Rattus norvegicus)			BL dodavatele
Inhalation (vapor)	LC ₅₀		45 mg/l	2 hours	Rat (Rattus norvegicus)			BL dodavatele
Dermal	LD ₅₀		>20000 mg/kg		Rabbit			BL dodavatele

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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

Nitrocellulose, nitrogen content ≤ 12,6%

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

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					

toluene

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

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toluene								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Dermal	LD ₅₀		5000 mg/kg bw					BL dodavatele

Skin corrosion/irritation

Causes skin irritation.

2-methylpropan-1-ol					
Route of exposure	Result	Method	Exposure time	Species	Source
	Irritating	OECD 404		Rabbit	BL dodavatele

Serious eye damage/irritation

Causes serious eye damage.

2-methylpropan-1-ol					
Route of exposure	Result	Method	Exposure time	Species	Source
Eye	Serious eye damage	OECD 405		Rabbit	BL dodavatele

Respiratory or skin sensitisation

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

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.

acetone				
Result	Exposure time	Specific target organ	Species	Sex
Negative				

Carcinogenicity

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

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

Reproductive toxicity

Suspected of damaging the unborn child.

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

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2-methylpropan-1-ol

Effect	Parameter	Method	Value	Result	Species	Sex	Source
Developmental toxicity	NOAEL	OECD 414	10 mg/l	Negative	Rat (Rattus norvegicus)		BL dodavatele

toluene

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

Toxicity for specific target organ - single exposure

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

Toxicity for specific target organ - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

2-methylpropan-1-ol

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

acetone

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Inhalation (vapor)	NOAEC			50100 mg/m ³	8 hours			BL dodavatele
Oral	NOAEL			900 mg/kg	90 days	Rat		

ethanol

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

ethyl acetate

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL			900 mg/kg bw/day		Rat		echa
Inhalation	NOEC			350 ppm		Rat		echa

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

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toluene								
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL			625 mg/kg bw/day		Rat (Rattus norvegicus)		echa
Inhalation	NOAEC			1.131 mg/l of air		Rat (Rattus norvegicus)		echa
Oral	NOAEL			625 mg/kg bw/day				BL dodavatel e
Inhalation	NOAEC			98 mg/m ³				BL dodavatel e

Aspiration hazard

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

11.2. Information on other hazards

Endocrine disrupting properties

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption for humans.

Other information

not available

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.

Acute toxicity

2-methylpropan-1-ol						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		>100 mg/l	96 hours	Fish (Pimephales promelas)		BL dodavatel e
EC ₅₀		>100 mg/l	48 hours	Daphnia (Daphnia pulex)		BL dodavatel e
EC ₅₀	OECD 201	>100 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)		BL dodavatel e
EC ₁₀	OECD 209	>100 mg/l	16 hours	Bacteria (Pseudomonas putida)		BL dodavatel e

acetone						
Parameter	Method	Value	Exposure time	Species	Environment	Source
EC ₅₀		>100 mg/l	48 hours	Daphnia (Daphnia magna)		
EC ₅₀		8300 mg/l	96 hours	Fish (Lepomis macrochirus)		
EC ₅₀		7500 mg/l	96 hours	Algae (Selenastrum capricornutum)		

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acetone						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		7500 mg/l	96 hours	Fish (Leuciscus idus)		
LC ₅₀		6500 mg/l	96 hours	Fish (Oncorhynchus mykiss)		

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

ethyl acetate						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		270 mg/l	48 hours	Fish (Oncorhynchus mykiss)		BL dodavatel
EC ₅₀		>3090 mg/l	24 hours	Invertebrates (Daphnia sp.)		BL dodavatel
EC ₅₀		>15 mg/l	168 hours	Algae (Selenastrum capricornutum)		BL dodavatel
LC ₅₀		220 mg/l	96 hours	Fish (Oncorhynchus mykiss)		BL dodavatel

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

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Nitrocellulose, nitrogen content ≤ 12,6%

Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀	OECD 203	>5000 mg/l	96 hours	Fish (Brochydemicterio)		BL dodavatel e
NOEC	OECD 202	100000 mg/l	48 hours	Daphnia (Daphnia magna)		BL dodavatel e
ErC ₅₀	OECD 201	>90000 mg/l	72 hours	Algae (Selenastrum capricornutum)		BL dodavatel e
EC ₅₀	OECD 209	>10000 mg/l	3 hours	Bacteria (Salmonella typhimurium)		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

Technical xylene (mixed with ethylbenzene)

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

toluene

Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		5.5 mg/l	96 hours	Fish (Oncorhynchus mykiss)		BL dodavatel e
EC ₅₀		3.78 mg/l	48 hours	Invertebrates	Fresh water	BL dodavatel e
EC ₅₀		134 mg/l	3 hours	Algae (Chlorella vulgaris)	Fresh water	BL dodavatel e

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toluene						
Parameter	Method	Value	Exposure time	Species	Environment	Source
EC ₅₀		84 mg/l	24 hours	Microorganisms (Photobacterium phosphoreum)		BL dodavatel

Chronic toxicity

2-methylpropan-1-ol						
Parameter	Method	Value	Exposure time	Species	Environment	Source
NOEC		20 mg/l	21 days	Daphnia (Daphnia magna)		BL dodavatel

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

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

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

12.2. Persistence and degradability

Data for the mixture are not available.

Biodegradability

2-methylpropan-1-ol						
Parameter	Method	Value	Exposure time	Environment	Result	Source
	OECD 301D	>70 %	28 days		Easily biodegradable	BL dodavatel

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acetone						
Parameter	Method	Value	Exposure time	Environment	Result	Source
		82 %			Biodegradable	

ethanol						
Parameter	Method	Value	Exposure time	Environment	Result	Source
		94 %				BL dodavatel e
CHSK		2.08 mg/kg				BL dodavatel e
BSK ₅		1.46 mg/kg				BL dodavatel e

ethyl acetate						
Parameter	Method	Value	Exposure time	Environment	Result	Source
					Biodegradable	BL dodavatel e

Nitrocellulose, nitrogen content ≤ 12,6%						
Parameter	Method	Value	Exposure time	Environment	Result	Source
	OECD 301B	>60 %	28 days			BL dodavatel e

12.3. Bioaccumulative potential

Data for the mixture are not available.

2-methylpropan-1-ol						
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]	Source
Log Pow	1				25°C	BL dodavatele

acetone						
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]	Source
Log Pow	-0.24					

12.4. Mobility in soil

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

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

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

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Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption in the environment.

12.7. Other adverse effects

Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

Waste management legislation

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

Waste type code

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

Packaging waste type code

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

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

SECTION 14: Transport information

14.1. UN number or ID number

UN 1263

14.2. UN proper shipping name

PAINT

14.3. Transport hazard class(es)

3 Flammable liquids

14.4. Packing group

II

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

Additional information

Hazard identification No.

33

UN number

1263

Classification code

F1

Safety signs

3



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Road transport - ADR

Special provisions	163, 367, 640D, 650
Limited quantities	5 L
Excepted quantities	E2

Packaging

Packing instructions	P001, IBC02, R001
Special packing provisions	PP1
Mixed packing provisions	MP19

Portable tanks and bulk containers

Guidelines	T4
Special provisions	TP1, TP8, TP28

ADR tank

Tank code	LGBF
Vehicles for tank carriage	FL
Transport category	2
Tunnel restriction code	(D/E)

Special provision for

operation	S2, S20
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Railway transport - RID

Special provisions	163, 367, 640D, 650
Excepted quantities	E2

Packaging

Packing instructions	P001, IBC02, R001
Special packing provisions	PP1
Mixed packing provisions	MP19

Portable tanks and bulk containers

Guidelines	T4
Special provisions	TP1, TP8, TP28

RID Tanks

Tank code	LGBF
Transport category	0

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. Product contains reportable explosives precursors: Reporting of suspicious transactions, disappearances and thefts according to Regulation (EU) 2019/1148, Article 9. 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).

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

toluene

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

15.2. Chemical safety assessment

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

More information

The product is classified on the basis of data on its hazardous properties obtained from professional sources. Bundesanstalt für Materialforschung und -prüfung (BAM), Germany. Handbook of Tests and Criteria, 7th Revised Edition, UN, 2019.

SECTION 16: Other information

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

EUH066	Repeated exposure may cause skin dryness or cracking.
H201	Explosive; mass explosion hazard.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312+H332	Harmful in contact with skin or if inhaled.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
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.
H412	Harmful to aquatic life with long lasting effects.

Guidelines for safe handling used in the safety data sheet

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P201	Obtain special instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.
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.

Other important information about human health protection

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The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

Acute Tox.	Acute toxicity
ADR	European agreement concerning the international carriage of dangerous goods by road
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Asp. Tox.	Aspiration hazard
BCF	Bioconcentration Factor
BOD	Biochemical oxygen demand
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
COD	Chemical oxygen demand
EC	Identification code for each substance listed in EINECS
EC ₁₀	Concentration of a substance when it is affected 10 % of the population
EC ₅₀	Concentration of a substance when it is affected 50 % of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
Expl.	Explosive
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC ₅₀	Concentration causing 50% blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC ₀	Lethal concentration of a substance in which it can be expected death of 0% of the population
LC ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population
LOAEL	Lowest observed adverse effect level
log K _{ow}	Octanol-water partition coefficient
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
OEL	Occupational Exposure Limits
PBT	Persistent, bioaccumulative and toxic
PMT	Persistent, mobile and toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Repr.	Reproductive toxicity
Resp. Sens.	Respiratory sensitization
RID	Agreement on the transport of dangerous goods by rail
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization

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STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very persistent and very bioaccumulative
vPvM	Very persistent and very mobile

Training guidelines

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

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

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

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

The version 3.0 replaces the SDS version from Wednesday, 18 July 2018. 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.