

SAFETY DATA SHEET

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



C6500 Universal thinner

Creation date	10th July 2018	Version	2.0
Revision date	31st March 2023		

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

1.1. Product identifier

Substance / mixture	C6500 Universal thinner mixture
Number	C6500-A-C0000
UFI	G3QP-16DQ-F005-FR12
Other mixture names	C6500 Ředidlo univerzální

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

Mixture's intended use

Thinner C6500 is intended for thinning nitrocellulose, oil and synthetic paints, for thinning paints from the TREXON series – TREXON EMAIL H2001, TREXON H2003, TREXON BAZÉNY H2203, LIHOLAK L1010, and wherever this thinner is prescribed by in the instructions.

Main intended use

PC-PNT-7 Paint removers, thinners and related auxiliaries

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
Asp. Tox. 1, H304
Skin Irrit. 2, H315
Eye Dam. 1, H318
STOT SE 3, H335, H336
Repr. 2, H361d
STOT RE 2, H373
Aquatic Chronic 3, H412

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

Most serious adverse physico-chemical effects

Highly flammable liquid and vapour.

Most serious adverse effects on human health and the environment

May cause respiratory irritation. Causes skin irritation. May be fatal if swallowed and enters airways. Suspected of damaging the unborn child. May cause drowsiness or dizziness. Causes serious eye damage. 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

Technical xylene (mixed with ethylbenzene)
toluene
n-butyl acetate
2-methylpropan-1-ol
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Hazard statements

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
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.
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.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331	Do NOT induce vomiting.
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. Container must be fitted with child-resistant fastening.

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.

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of alcohols, esters, and aliphatic and aromatic hydrocarbons.

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)	20-23	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	1
Index: 601-021-00-3 CAS: 108-88-3 EC: 203-625-9 Registration number: 01-2119471310-51	toluene	20-22	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Repr. 2 (**), H361d STOT RE 2 (*), H373	1, 2
Index: 607-025-00-1 CAS: 123-86-4 EC: 204-658-1 Registration number: 01-2119485493-29	n-butyl acetate	15-25	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	1
Index: 603-108-00-1 CAS: 78-83-1 EC: 201-148-0 Registration number: 01-2119484609-23	2-methylpropan-1-ol	11-14	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335, H336	
Index: 606-001-00-8 CAS: 67-64-1 EC: 200-662-2 Registration number: 01-2119471330-49	acetone	7-10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	1
CAS: 64742-82-1 EC: 919-446-0 Registration number: 01-2119458049-33	hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	6,5-7,5	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336 STOT RE 1, H372 (central nervous system, respiratory tract (inhalation)) Aquatic Chronic 2, H411 EUH066	3
EC: 921-024-6 Registration number: 01-2119475514-35	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	5-8	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411	3

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 601-017-00-1 CAS: 110-82-7 EC: 203-806-2 Registration number: 01-2119463273-41	cyclohexane	≤0,70	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	1, 2
Index: 601-037-00-0 CAS: 110-54-3 EC: 203-777-6	n-hexane	<0,35	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Repr. 2 (**), H361f STOT RE 2 (**), H373 Aquatic Chronic 2, H411 Specific concentration limit: STOT RE 2, H373: C ≥ 5 %	1

Notes

** another exposure route cannot be ruled out

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

1 A substance for which exposure limits are set.

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

3 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

Do not perform artificial respiration without self-protection (e.g. a mask). 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. Take care of your own safety, do not let the affected person walk! Beware of the contaminated clothes. Depending on the situation, call the medical rescue service and ensure medical treatment considering the frequent need of further observation for at least 24 hours.

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

If the affected person vomits, make sure to prevent inhalation of the vomit (as there is a danger of lung damage after inhalation of these liquids in the airways also in infinitesimal amount). Ensure medical treatment considering the frequent need of further observation for at least 24 hours. Bring an original container with the label and the Safety Data Sheet of the given substance as appropriate.

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

If inhaled

Inhaling vapours can cause corrosion of the breathing system. Cough, headache. May cause respiratory irritation. 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.

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.

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Content	Packaging type	Material of package
0,42 l	can / tin	FE
0,7 l	can / tin	FE
2 l	jerry can	FE
4 l	jerry can	FE
9 l	jerry can	FE
170 l	barrel / drum	FE

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 2000/39/EC

Substance name (component)	Type	Value	Note
n-butyl acetate (CAS: 123-86-4)	OEL 8 hours	241 mg/m ³	
	OEL 8 hours	50 ppm	
	OEL 15 minutes	723 mg/m ³	
	OEL 15 minutes	150 ppm	
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	Note
toluene (CAS: 108-88-3)	OEL 8 hours	192 mg/m ³	Skin
	OEL 8 hours	50 ppm	
	OEL 15 minutes	384 mg/m ³	
	OEL 15 minutes	100 ppm	
cyclohexane (CAS: 110-82-7)	OEL 8 hours	700 mg/m ³	
	OEL 8 hours	200 ppm	
n-hexane (CAS: 110-54-3)	OEL 8 hours	72 mg/m ³	
	OEL 8 hours	20 ppm	

European Union

Commission Directive 91/322/EEC

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

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European Union

Commission Directive 91/322/EEC

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

DNEL

2-methylpropan-1-ol

Workers / consumers	Route of exposure	Value	Effect	Value determination	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	Value determination	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		

cyclohexane

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	700 mg/m ³	Chronic effects systemic		BL dodavatele
Workers	Inhalation	700 mg/m ³	Acute effects systemic		BL dodavatele
Workers	Inhalation	700 mg/m ³	Chronic effects local		BL dodavatele
Workers	Inhalation	700 mg/m ³	Acute effects local		BL dodavatele
Workers	Dermal	2016 mg/kg bw/day	Chronic effects systemic		BL dodavatele
Consumers	Inhalation	206 mg/m ³	Chronic effects systemic		BL dodavatele
Consumers	Inhalation	412 mg/m ³	Acute effects systemic		BL dodavatele
Consumers	Inhalation	206 mg/m ³	Chronic effects local		BL dodavatele
Consumers	Inhalation	412 mg/m ³	Acute effects local		BL dodavatele
Consumers	Dermal	1186 mg/kg bw/day	Chronic effects systemic		BL dodavatele
Consumers	Oral	59.4 mg/kg bw/day	Chronic effects systemic		BL dodavatele

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Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	2035 mg/m ³	Chronic effects systemic		BL dodavatele
Workers	Dermal	773 mg/kg	Chronic effects systemic		BL dodavatele
Consumers	Inhalation	608 mg/m ³	Chronic effects systemic		BL dodavatele
Consumers	Dermal	699 mg/kg	Chronic effects systemic		BL dodavatele
Consumers	Oral	699 mg/kg	Chronic effects systemic		BL dodavatele

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

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

Technical xylene (mixed with ethylbenzene)

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

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toluene

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

PNEC

2-methylpropan-1-ol

Route of exposure	Value	Value determination	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 food		BL dodavatele
Sea sediments	0.152 mg/kg of food		BL dodavatele
Soil (agricultural)	0.0699 mg/kg of dry substance of soil		BL dodavatele

acetone

Route of exposure	Value	Value determination	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		

cyclohexane

Route of exposure	Value	Value determination	Source
Freshwater environment	0.207 mg/l		BL dodavatele
Marine water	0.207 mg/l		BL dodavatele
Water (intermittent release)	0.207 mg/l		BL dodavatele
Microorganisms in sewage treatment	3.24 mg/l		BL dodavatele

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cyclohexane

Route of exposure	Value	Value determination	Source
Freshwater sediment	3.627 mg/kg bw/day		BL dodavatele
Sea sediments	3.627 mg/kg bw/day		BL dodavatele
Soil (agricultural)	2.99 mg/kg/24h		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

Technical xylene (mixed with ethylbenzene)

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

toluene

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

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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. 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

Mask with a filter 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, clear, transparent
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)
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	<-20 °C (BL dodavatele)
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (CAS: 64742-82-1)	-73 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	-78 °C (BL dodavatele)
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)
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	89-107 °C (BL dodavatele)
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (CAS: 64742-82-1)	155-194 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	124-126,5 °C (BL dodavatele)
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)
n-butyl acetate (CAS: 123-86-4)	inflammable (odvozeno od bodu vzplanutí)
Technical xylene (mixed with ethylbenzene)	inflammable (BL dodavatele)
toluene (CAS: 108-88-3)	Flammable liquid of risk class II (BL dodavatele)
Lower and upper explosion limit	
bottom	0,7 % (for Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%))
2-methylpropan-1-ol (CAS: 78-83-1)	1,7 % (BL dodavatele)
acetone (CAS: 67-64-1)	2,5 % (BL dodavatele)
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	1,1 % (BL dodavatele)

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hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (CAS: 64742-82-1)	0,7 % (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	1,2 % (literatura)
Technical xylene (mixed with ethylbenzene)	0,8 % (BL dodavatele)
toluene (CAS: 108-88-3)	1,3 % (BL dodavatele)
upper	10,9 % (for 2-methylpropan-1-ol)
2-methylpropan-1-ol (CAS: 78-83-1)	10,9 % (BL dodavatele)
acetone (CAS: 67-64-1)	14,3 % (BL dodavatele)
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	7,0 % (BL dodavatele)
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (CAS: 64742-82-1)	6 % (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	7,6 % (literatura)
Technical xylene (mixed with ethylbenzene)	7 % (BL dodavatele)
toluene (CAS: 108-88-3)	6,7 % (BL dodavatele)
Flash point	6 °C (PND 65 6065)
2-methylpropan-1-ol (CAS: 78-83-1)	31 °C (BL dodavatele)
acetone (CAS: 67-64-1)	-17 °C (BL dodavatele)
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	-9 °C (BL dodavatele)
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (CAS: 64742-82-1)	43 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	27 °C (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	18-32 °C (BL dodavatele)
toluene (CAS: 108-88-3)	4,4 °C (BL dodavatele)
Auto-ignition temperature	data not available
2-methylpropan-1-ol (CAS: 78-83-1)	400 °C (BL dodavatele)
acetone (CAS: 67-64-1)	465 °C (BL dodavatele)
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	268 °C (BL dodavatele)
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (CAS: 64742-82-1)	242 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	415 °C (BL dodavatele)
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)
Kinematic viscosity	<20,5 mm ² /s at 40 °C
Kinematic viscosity	data not available
n-butyl acetate (CAS: 123-86-4)	0,83 mm ² /s at 20 °C (BL dodavatele)
Solubility in water	not miscible
2-methylpropan-1-ol (CAS: 78-83-1)	70 g/l (20 °C) (BL dodavatele)
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	almost insoluble (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	5,3 g/l při 20 °C (pH 6) (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	146-190,7 mg/l při 25 °C (BL dodavatele)
toluene (CAS: 108-88-3)	573-587 mg/l při 25°C (BL dodavatele)
Partition coefficient n-octanol/water (log value)	LogPow -0,24 to >4 (for the substances contained)
2-methylpropan-1-ol (CAS: 78-83-1)	1 (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	2,3 (BL dodavatele)
Vapour pressure	6,5 hPa to 233 hPa at 20 °C (for the substances contained)
2-methylpropan-1-ol (CAS: 78-83-1)	16 hPa at 20 °C (BL dodavatele)
acetone (CAS: 67-64-1)	240 hPa at 20 °C (BL dodavatele)
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	6 kPa at 20 °C (BL dodavatele)

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hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (CAS: 64742-82-1)	0,2 kPa at 20 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	11,6 hPa at 20 °C (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	650-944 Pa (BL dodavatele)
toluene (CAS: 108-88-3)	3088,9 Pa at 21,1 °C (BL dodavatele)
Density and/or relative density	
Density	0,830-0,840 g/cm ³ at 23 °C (manufacturer's methodology B5/TD1-5 (ČSN EN ISO 2811-2))
2-methylpropan-1-ol (CAS: 78-83-1)	0,8017 g/cm ³ at 20 °C (BL dodavatele)
acetone (CAS: 67-64-1)	0,790 g/cm ³ at 20 °C (BL dodavatele)
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	0,72 g/cm ³ at 15 °C (BL dodavatele)
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (CAS: 64742-82-1)	0,79 g/cm ³ at 15 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	0,8812 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: volatile
VOC content in product: category and subcategory of products - not classified	

9.2. Other information

Appearance	clear, colorless liquid without extraneous impurities (manufacturer's methodology B5/TD1-17 (ČSN EN ISO 1513))
Combustion temperature	18 °C (PND 65 6212)
Ignition temperature	420 °C (PND 33 0371)
Vapour density	> 1 (air = 1)
Content of organic solvents (VOC)	1,000 kg/kg (calculation)
Total organic carbon (TOC)	0,797 kg/kg (calculation)
Solid content (dry matter)	0 % volume
Max. VOC content in the product in its ready to use condition	840 g/l (calculation)
Flammability - temperature class: T2 (PND 33 0371); Calorific value: 33,88 MJ/kg (PND 65 6169); Heat of combustion: 33,28 MJ/kg (PND 65 6169).	

SECTION 10: Stability and reactivity

10.1. Reactivity

not available

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

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

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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

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			

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Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Dermal	ATE		5000 mg/kg				Calculation of value	
Inhalation (vapor)	ATE		>50 mg/l				Calculation of value	

cyclohexane

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀	OECD 401	>5000 mg/kg		Rat	F/M		BL dodavatele
Inhalation (vapor)	LC ₅₀	OECD 403	>32.88 mg/l	4 hours	Rat	F/M		BL dodavatele
Dermal	LD ₅₀	OECD 402	>2000 mg/kg		Rabbit	F/M		BL dodavatele

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Inhalation	LC ₅₀	OECD 403	>20 mg/l	4 hours	Rat			BL dodavatele

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Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

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
Dermal	LD ₅₀	OECD 402	>2920 mg/kg		Rabbit			BL dodavat ele

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

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

n-butyl acetate

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

Technical xylene (mixed with ethylbenzene)

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

toluene

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

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toluene

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Inhalation	LC ₅₀		25.7 mg/l of air		Rat			echa
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

Based on available data the classification criteria are not met.

Germ cell mutagenicity

acetone

Result	Exposure time	Specific target organ	Species	Sex
Negative				

Carcinogenicity

Based on available data the classification criteria are not met.

toluene

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

Reproductive toxicity

Suspected of damaging the unborn child. Based on available data the classification criteria are not met.

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
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 respiratory irritation. May cause drowsiness or dizziness.

Toxicity for specific target organ - repeated exposure

May cause damage to organs through prolonged or repeated exposure. Based on available data the classification criteria are not met.

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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 dodavatel e

acetone

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

cyclohexane

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Inhalation	NOAEL			>250 ppm	90 days	Rat		BL dodavatel e

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

May be fatal if swallowed and enters airways.

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

Acute toxicity

Harmful to aquatic life with long lasting effects.

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

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2-methylpropan-1-ol

Parameter	Method	Value	Exposure time	Species	Environment	Source
EC ₁₀	OECD 209	>100 mg/l	16 hours	Bacteria (Pseudomonas putida)		BL dodavatel

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)		
LC ₅₀		7500 mg/l	96 hours	Fish (Leuciscus idus)		
LC ₅₀		6500 mg/l	96 hours	Fish (Oncorhynchus mykiss)		

cyclohexane

Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀	OECD 203	4.53 mg/l	96 hours	Fish (Pimephales promelas (střevle))		BL dodavatel
EC ₅₀	OECD 202	0.9 mg/l	48 hours	Daphnia (Daphnia magna)		BL dodavatel
EC ₅₀	OECD 201	9.317 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata (zelené řasy))		BL dodavatel

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Parameter	Method	Value	Exposure time	Species	Environment	Source
EL ₅₀		3 mg/l	48 hours	Daphnia (Daphnia magna)		BL dodavatel
LL ₅₀		11.4 mg/l	96 hours	Fish (Oncorhynchus mykiss)		BL dodavatel
NOELR		3 mg/l	72 hours	Algae (Selenastrum capricornutum)		BL dodavatel

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

Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀	OECD 203	10-30 mg/l	96 hours	Fish (Oncorhynchus mykiss)		BL dodavatel
EC ₅₀	OECD 202	10-22 mg/l	48 hours	Daphnia (Daphnia magna)		BL dodavatel
ErC ₅₀	OECD 201	4.1 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)		BL dodavatel

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n-butyl acetate

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

Technical xylene (mixed with ethylbenzene)

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

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
EC ₅₀		84 mg/l	24 hours	Microorganisms (Photobacterium phosphoreum)		BL dodavatel e

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 e

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Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Parameter	Method	Value	Exposure time	Species	Environment	Source
NOEC		0.17 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

Biodegradability

2-methylpropan-1-ol

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

acetone

Parameter	Method	Value	Exposure time	Environment	Result	Source
		82 %			Biodegradable	

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Parameter	Method	Value	Exposure time	Environment	Result	Source
degradovaný podíl		81	28 days		Easily biodegradable	BL dodavatel

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

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

not available

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12.3. Bioaccumulative potential

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					

Not available.

12.4. Mobility in soil

2-methylpropan-1-ol

Parameter	Value	Environment	Temperature	Result	Source
Koc	2.1			High	BL dodavatele

Not available.

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

Waste management legislation

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

Waste type code

07 07 04 other organic solvents, washing liquids and mother liquors *

20 01 13 Solvents *

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 1993

14.2. UN proper shipping name

FLAMMABLE LIQUID, N.O.S. ((contains Toluene, Xylene technical (mixture with ethylbenzene), Acetone))

14.3. Transport hazard class(es)

3 Flammable liquids

14.4. Packing group

II - substances presenting medium danger

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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

1993

Classification code

F1

Safety signs

3



Road transport - ADR

Special provisions

274, 601, 640D

Limited quantities

1 L

Excepted quantities

E2

Packaging

Packing instructions

P001, IBC02, R001

Mixed packing provisions

MP19

Portable tanks and bulk containers

Guidelines

T7

Special provisions

TP1, TP8, TP28

ADR tank

Tank code

LGBF

Vehicles for tank carriage

FL

Transport category

2

Tunnel restriction code

(D/E)

Special provision for

operation

S2, S20

Railway transport - RID

Special provisions

274, 601, 640D

Excepted quantities

E2

Packaging

Packing instructions

P001, IBC02, R001

Mixed packing provisions

MP19

Portable tanks and bulk containers

Guidelines

T7

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

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SECTION 15: Regulatory information

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

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

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

cyclohexane

Restriction	Conditions of restriction
57	1. Shall not be placed on the market for the first time after 27 June 2010, for supply to the general public, as a constituent of neoprene-based contact adhesives in concentrations equal to or greater than 0,1 % by weight in package sizes greater than 350 g. 2. Neoprene-based contact adhesives containing cyclohexane and not conforming to paragraph 1 shall not be placed on the market for supply to the general public after 27 December 2010. 3. Without prejudice to other Community legislation concerning the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that neoprene-based contact adhesives containing cyclohexane in concentrations equal to or greater than 0,1 % by weight that are placed on the market for supply to the general public after 27 December 2010 are visibly, legibly and indelibly marked as follows: — This product is not to be used under conditions of poor ventilation. — This product is not to be used for carpet laying.”

toluene

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

15.2. Chemical safety assessment

not available

SECTION 16: Other information

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

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361f	Suspected of damaging fertility.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to the central nervous system, the respiratory tract (inhalation) through prolonged or repeated exposure.
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.

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H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

H312+H332 Harmful in contact with skin or if inhaled.

Guidelines for safe handling used in the safety data sheet

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.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P331 Do NOT induce vomiting.

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 be handed 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.

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

EC Identification code for each substance listed in EINECS

EC₁₀ Concentration of a substance when it is affected 10% of the population

EC₅₀ Concentration of a substance when it is affected 50% of the population

EINECS European Inventory of Existing Commercial Chemical Substances

EL₅₀ 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

IC₅₀ 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

LC₀ Lethal concentration of a substance in which it can be expected death of 0% of the population

LC₅₀ Lethal concentration of a substance in which it can be expected death of 50% of the population

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LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population
LL ₅₀	Lethal Loading for 50% of tested organisms
LOAEL	Lowest observed adverse effect level
log K _{ow}	Octanol-water partition coefficient
NOAEC	No observed adverse effect concentration
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
Repr.	Reproductive toxicity
Skin Irrit.	Skin irritation
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure

Training guidelines

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

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

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

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

The version 2.0 replaces the SDS version from 10 July 2018. Changes were made in sections 1, 2, 3, 7, 8, 9, 11, 12, 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.