

SAFETY DATA SHEET

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



C6000 Thinner for nitrocellulose paints

Creation date	11th November 2016	Version	4.0
Revision date	27th June 2025		

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

- 1.1. Product identifier**
Substance / mixture C6000 Thinner for nitrocellulose paints
Number mixture
UFI C6000-: A-C0000, A-V0004, A-V0006, A-V0012
G6A2-K6H8-R00G-PEHH
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
THINNER C6000 is used to thin nitrocellulose paints, unless another thinner is specifically prescribed. THINNER C6000 can also be used to thin synthetic paints applied by brush, roller, or spray, if this method of thinning is recommended in the instructions for the respective paint.
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.
Exposure scenario is attached to the Safety Data Sheet.
- 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. Gabriela Kubíková
E-mail kubikova@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 2, H411

Most serious adverse physico-chemical effects

Highly flammable liquid and vapour.

Most serious adverse effects on human health and the environment

May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.

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2.2. Label elements

Hazard pictogram



Signal word

Danger

Hazardous substances

toluene
acetone
2-methylpropan-1-ol
butan-1-ol
Technical xylene (mixed with ethylbenzene)

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.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
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.
P264	Wash hands/ stained body parts/ water and soap thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/eye protection/protective clothing/face protection.
P301+P310	IF SWALLOWED: Immediately call a doctor.
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.
P312	Call a POISON CENTER/doctor if you feel unwell.
P331	Do NOT induce vomiting.
P370+P378	In case of fire: Use foam (alcohol resistant), carbon dioxide, a spray mist, powder to extinguish.
P391	Collect spillage.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to by handing over to a person authorized to dispose of waste or a site designated by the town.

Supplemental information

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.

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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.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

THINNER C6000 is a mixture of aromatic hydrocarbons, esters and alcohols (isobutanol, isobutyl acetate, gasoline, toluene, ethyl acetate). Mixture of substances and additives specified below.

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

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 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	1, 2, 5
Index: 606-001-00-8 CAS: 67-64-1 EC: 200-662-2 Registration number: 01-2119471330-49	acetone	10-20	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	1, 4, 5
Index: 607-025-00-1 CAS: 123-86-4 EC: 204-658-1 Registration number: 01-2119485493-29	n-butyl acetate	7-17	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	7.5-8.5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335, H336	
Index: 603-004-00-6 CAS: 71-36-3 EC: 200-751-6 Registration number: 01-2119484630-38	butan-1-ol	7-8	Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335, H336	
EC: 905-588-0 Registration number: 01-2119539452-40	Technical xylene (mixed with ethylbenzene)	6-9	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 %	1, 3
Index: 607-022-00-5 CAS: 141-78-6 EC: 205-500-4 Registration number: 01-2119475103-46	ethyl acetate	1-4	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	1

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 603-002-00-5 CAS: 64-17-5 EC: 200-578-6 Registration number: 01-2119457610-43	ethanol	0.1-1	Flam. Liq. 2, H225 Eye Irrit. 2, H319	
Index: 603-117-00-0 CAS: 67-63-0 EC: 200-661-7 Registration number: 01-2119457558-25	propan-2-ol	0.1-1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH019	

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.

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

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). Provide 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. Do not allow to enter drains.

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes. No smoking. Wash hands and exposed parts of the body thoroughly after handling. Do not eat, drink or smoke when using this product. 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
20 l	jerry can	FE
145 kg	barrel / drum	FE
170 l	barrel / drum	FE
550 kg	IBC (intermediate bulk container)	
800 kg	IBC (intermediate bulk container)	

Storage class 8A - Combustible corrosive substances

Storage temperature +5 až +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.

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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
	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	

butan-1-ol				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	310 mg/m ³	Chronic effects local	echa
Consumers	Oral	3.125 mg/kg bw/day	Chronic effects systemic	echa
Consumers	Inhalation	55 mg/m ³	Acute effects local	echa

ethanol				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Dermal	343 mg/kg/24h	Chronic effects systemic	BL dodavatele
Consumers	Dermal	206 mg/kg/24h	Chronic effects systemic	BL dodavatele
Workers	Inhalation	1900 mg/m ³	Acute effects systemic	BL dodavatele
Consumers	Inhalation	950 mg/m ³	Acute effects systemic	BL dodavatele
Workers	Inhalation	950 mg/m ³	Chronic effects systemic	BL dodavatele
Consumers	Inhalation	114 mg/m ³	Chronic effects systemic	BL dodavatele
Consumers	Oral	87 mg/kg/24h	Chronic effects local	BL dodavatele

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ethyl acetate				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Dermal	63 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Workers	Inhalation	734 mg/m ³	Chronic effects systemic	BL dodavatele
Consumers	Dermal	37 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Inhalation	374 mg/kg	Acute effects systemic	BL dodavatele
Consumers	Inhalation	374 mg/kg	Acute effects local	BL dodavatele
Consumers	Oral	4.5 mg/kg bw/day	Chronic effects systemic	BL dodavatele

n-butyl acetate				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	300 mg/m ³	Chronic effects systemic	BL dodavatele
Workers	Inhalation	600 mg/m ³	Acute effects systemic	BL dodavatele
Workers	Inhalation	300 mg/m ³	Chronic effects local	BL dodavatele
Workers	Inhalation	600 mg/m ³	Acute effects local	BL dodavatele
Workers	Dermal	100 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Workers	Dermal	11 mg/kg bw/day	Acute effects systemic	BL dodavatele
Consumers	Inhalation	35.7 mg/m ³	Chronic effects systemic	BL dodavatele
Consumers	Inhalation	300 mg/m ³	Acute effects systemic	BL dodavatele
Consumers	Inhalation	35.7 mg/m ³	Chronic effects local	BL dodavatele
Consumers	Inhalation	300 mg/m ³	Acute effects local	BL dodavatele
Consumers	Dermal	6 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Dermal	6 mg/kg bw/day	Acute effects systemic	BL dodavatele
Consumers	Dermal	2 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Dermal	2 mg/kg bw/day	Acute effects systemic	BL dodavatele

propan-2-ol				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	500 mg/m ³	Chronic effects systemic	bezpečnostní list dodavatele
Workers	Dermal	888 mg/kg bw/day	Chronic effects systemic	bezpečnostní list dodavatele
Consumers	Inhalation	89 mg/m ³ of air	Chronic effects systemic	bezpečnostní list dodavatele
Consumers	Oral	26 mg/kg bw/day	Chronic effects systemic	
Consumers	Dermal	319 mg/kg bw/day	Chronic effects systemic	

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	221 mg/m ³	Chronic effects local	BL dodavatele
Workers	Dermal	212 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Inhalation	65.3 mg/m ³	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

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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	Dermal	384 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Inhalation	56.5 mg/m ³	Chronic effects systemic	BL dodavatele
Consumers	Inhalation	56.5 mg/m ³	Chronic effects local	BL dodavatele
Consumers	Dermal	226 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Oral	8.13 mg/kg bw/day	Chronic effects systemic	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

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	

butan-1-ol

Route of exposure	Value	Source
Freshwater environment	82 µg/l	echa
Marine water	8.2 µg/l	echa
Water (intermittent release)	2.25 mg/l	echa
Microorganisms in sewage treatment	2.476 g/l	echa
Freshwater sediment	0.178 mg/kg of dry substance of sediment	echa
Sea sediments	17.8 µg/kg	echa
Soil (agricultural)	15 µg/kg	echa

ethanol

Route of exposure	Value	Source
Freshwater environment	0.96 mg/l	BL dodavatele

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ethanol		
Route of exposure	Value	Source
Marine water	0.79 mg/l	BL dodavatele
Freshwater sediment	3.6 mg/kg	BL dodavatele
Soil (agricultural)	0.63 mg/kg	BL dodavatele
Microorganisms in sewage treatment	580 mg/l	BL dodavatele
Secondary poisoning	720 mg/kg of food	BL dodavatele

ethyl acetate		
Route of exposure	Value	Source
Freshwater environment	0.26 mg/l	BL dodavatele
Freshwater sediment	1.25 mg/kg of dry substance of sediment	BL dodavatele
Soil (agricultural)	0.24 mg/kg of dry substance of soil	BL dodavatele
Microorganisms in sewage treatment	650 mg/l	BL dodavatele

n-butyl acetate		
Route of exposure	Value	Source
Freshwater environment	0.18 mg/l	BL dodavatele
Marine water	0.018 mg/l	BL dodavatele
Freshwater sediment	0.981 mg/kg of dry substance of sediment	BL dodavatele
Sea sediments	0.0981 mg/kg of dry substance of sediment	BL dodavatele
Soil (agricultural)	0.0903 mg/kg of dry substance of soil	BL dodavatele

propan-2-ol		
Route of exposure	Value	Source
Microorganisms in sewage treatment	2251 mg/l	
Freshwater sediment	552 mg/kg	
Sea sediments	552 mg/kg	
Soil (agricultural)	25 mg/kg	
Freshwater environment	140.9 mg/l	
Marine water	140.9 mg/l	
Water (intermittent release)	140.9 mg/l	
Food chain	160 mg/kg	

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

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toluene		
Route of exposure	Value	Source
Freshwater environment	0.68 mg/l	BL dodavatele
Water (intermittent release)	0.68 mg/l	BL dodavatele
Freshwater sediment	16.39 mg/kg of dry substance of sediment	BL dodavatele
Marine water	0.68 mg/l	BL dodavatele
Sea sediments	16.39 mg/kg of dry substance of sediment	BL dodavatele
Microorganisms in sewage treatment	13.61 mg/l	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: Product-resistant protective gloves (EN 374). Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Suitable protective glove materials EN 374: Polychloroprene-CR: thickness: > 0.5 mm, breakthrough time >480 min; Nitrile rubber - NRB: thickness: > 0.35 mm, breakthrough time >480 min; Butyl rubber -IIR: thickness: > 0.5 mm, breakthrough time >480 min; Fluorocarbon rubber - FKM: thickness: > 0.4 mm, breakthrough time >480 min. The suitability for the respective workplace should be discussed with the protective glove manufacturer. After contamination with the product, gloves should be changed immediately and contaminated gloves should be disposed of professionally. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly. When selecting gloves, consider the properties of the product and the duration of exposure. Replace gloves at the first signs of wear or damage. Other protection: Protective antistatic clothing made of natural fibres (cotton) or synthetic fibres resistant to elevated temperatures. Antistatic footwear.

Respiratory protection



Mask with a filter against organic vapours in a poorly ventilated environment.

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Thermal hazard

Not available.

Environmental exposure controls

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

More information

Exposure scenario is attached to the Safety Data Sheet.

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)
butan-1-ol (CAS: 71-36-3)	-90 °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)
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)
butan-1-ol (CAS: 71-36-3)	119 °C (BL dodavatele)
ethanol (CAS: 64-17-5)	78.3 °C (BL dodavatele)
ethyl acetate (CAS: 141-78-6)	77.15 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	124-126.5 °C (BL dodavatele)
propan-2-ol (CAS: 67-63-0)	82-83 °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 hazard 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)
Lower and upper explosion limit	
bottom	0.7 % (for hydrocarbons, C10, aromatic, <1% naphthalene)
2-methylpropan-1-ol (CAS: 78-83-1)	1.7 % (BL dodavatele)
acetone (CAS: 67-64-1)	2.5 % (BL dodavatele)
butan-1-ol (CAS: 71-36-3)	1.4 % (BL dodavatele)
ethanol (CAS: 64-17-5)	3.3 % (BL dodavatele)
ethyl acetate (CAS: 141-78-6)	2.1 % (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	1.2 % (literatura)
propan-2-ol (CAS: 67-63-0)	2 % (BL dodavatele)
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)
butan-1-ol (CAS: 71-36-3)	11.3 % (BL dodavatele)
ethanol (CAS: 64-17-5)	19 % (BL dodavatele)
ethyl acetate (CAS: 141-78-6)	11.5 % (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	7.6 % (literatura)

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propan-2-ol (CAS: 67-63-0)	12 % (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	7 % (BL dodavatele)
toluene (CAS: 108-88-3)	6.7 % (BL dodavatele)
Flash point	3 °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)
butan-1-ol (CAS: 71-36-3)	35 °C (BL dodavatele)
ethanol (CAS: 64-17-5)	12.85 °C (BL dodavatele)
ethyl acetate (CAS: 141-78-6)	-44 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	27 °C (BL dodavatele)
propan-2-ol (CAS: 67-63-0)	13 °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)
butan-1-ol (CAS: 71-36-3)	355 °C (BL dodavatele)
ethanol (CAS: 64-17-5)	362.85 °C (BL dodavatele)
ethyl acetate (CAS: 141-78-6)	427 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	415 °C (BL dodavatele)
propan-2-ol (CAS: 67-63-0)	425 °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	data not available
n-butyl acetate (CAS: 123-86-4)	0.83 mm ² /s at 20 °C (BL dodavatele)
Solubility in water	Immiscible
2-methylpropan-1-ol (CAS: 78-83-1)	70 g/l (20 °C) (BL dodavatele)
butan-1-ol (CAS: 71-36-3)	75 g/l při 20 °C (BL dodavatele)
ethanol (CAS: 64-17-5)	789 000 mg/l při 20°C (BL dodavatele)
ethyl acetate (CAS: 141-78-6)	83 g/l při 20°C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	5.3 g/l při 20 °C (pH 6) (BL dodavatele)
propan-2-ol (CAS: 67-63-0)	miscible (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 -0.35 to >4 (for the substances contained)
2-methylpropan-1-ol (CAS: 78-83-1)	1 (BL dodavatele)
butan-1-ol (CAS: 71-36-3)	0.88 (BL dodavatele)
ethanol (CAS: 64-17-5)	-0.35 (BL dodavatele)
ethyl acetate (CAS: 141-78-6)	0.6 (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	3.12-3.2 (BL dodavatele)
toluene (CAS: 108-88-3)	2.73 (BL dodavatele)
Vapour pressure	6.5 hPa to 240 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)
butan-1-ol (CAS: 71-36-3)	10 hPa at 20 °C (BL dodavatele)
ethanol (CAS: 64-17-5)	57.26 hPa at 19.65 °C (BL dodavatele)
ethyl acetate (CAS: 141-78-6)	124.79 hPa at 20 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	12-21 at 20 °C (literatura)
propan-2-ol (CAS: 67-63-0)	42 hPa at 20 °C (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	6.50-9.44 hPa at 20 °C (BL dodavatele)

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toluene (CAS: 108-88-3)	31 hPa at 20 °C (BL dodavatele)
Density and/or relative density	
Density	0.8-0.9 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)
butan-1-ol (CAS: 71-36-3)	0.81 g/cm ³ at 20 °C (BL dodavatele)
ethanol (CAS: 64-17-5)	0.7844 g/cm ³ at 25 °C (BL dodavatele)
ethyl acetate (CAS: 141-78-6)	0.902 g/cm ³ at 20 °C (BL dodavatele)
n-butyl acetate (CAS: 123-86-4)	0.8812 g/cm ³ at 20 °C (BL dodavatele)
propan-2-ol (CAS: 67-63-0)	0.784-0.789 g/cm ³ (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	0.862-0.88 g/cm ³ at 25 °C (BL dodavatele)
toluene (CAS: 108-88-3)	0.866 g/cm ³ at 20 °C (BL dodavatele)
Relative vapour density	data not available
Particle characteristics	data not available
Form	liquid: volatile, clear, transparent liquid without foreign impurities (manufacturer's methodology B5/TD1-17 (ČSN EN ISO 1513))
Volatile organic compound (VOC) content in the product: product category and subcategory - not classified.	
9.2. Other information	
Combustion temperature	11 °C (PND 65 6212)
Ignition temperature	445 °C (PND 33 0371)
Vapour density	>1
Content of organic solvents (VOC)	1.000 kg/kg (calculation)
Total organic carbon (TOC)	0.826 kg/kg (calculation)
Solid content (dry matter)	0 % volume
Max. VOC content in the product in its ready to use condition	844 g/l (calculation)
Temperature class: T2 (PND 33 0371); Calorific value: 34.87 MJ/kg (PND 65 6169); Calorific value: 37.05 MJ/kg (PND 65 6169).	

SECTION 10: Stability and reactivity

10.1. Reactivity

The mixture is highly flammable.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

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

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

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Acute toxicity

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

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Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	ATE		6494 mg/kg				Calculation of value	
Dermal	ATE		13924 mg/kg				Calculation of value	
Inhalation (vapor)	ATE		139.2 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			

butan-1-ol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		2292 mg/kg bw		Rat			echa
Inhalation	LC ₀		17.76 mg/l of air	4 hours	Rat			echa
Dermal	LD ₅₀		3430 mg/kg bw		Rabbit			echa

ethanol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		10470 mg/kg		Rat (Rattus norvegicus)			BL dodavatele
Dermal	LD ₅₀		15800 mg/kg		Rat (Rattus norvegicus)			BL dodavatele
Inhalation	LD ₅₀		30000 mg/m ³		Rat (Rattus norvegicus)			BL dodavatele

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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
Dermal	LD ₅₀		≥20000 mg/kg		Rabbit			BL dodavatele
Inhalation	LC ₅₀		200000 mg/m ³		Rabbit			BL dodavatele

n-butyl acetate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀	OECD 423	10726 mg/kg bw		Rat (Rattus norvegicus)			BL dodavatele
Dermal	LD ₅₀	OECD 402	14112 mg/kg bw		Rabbit			BL dodavatele
Inhalation	NOAEC	EPA OTS 798.2450	550 ppm	13 weeks	Rat (Rattus norvegicus)			BL dodavatele

propan-2-ol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		>2000 mg/kg		Rat			
Dermal	LD ₅₀		>2000 mg/kg		Rabbit			
Inhalation (vapor)	LC ₅₀		>10000 ppm	6 hours	Rat			

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 (Rattus norvegicus)			BL dodavatele
Skin	LD ₅₀		12126 mg/kg bw		Rabbit			BL dodavatele
Inhalation (vapor)	LD ₅₀		6700 ppm		Rat (Rattus norvegicus)			BL dodavatele

toluene

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀		5580 mg/kg bw		Rat (Rattus norvegicus)			BL dodavatele

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toluene								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Skin	LD ₅₀		> 5000 mg/kg bw		Rabbit			BL dodavatele
Inhalation (vapor)	STEL		100 ppm	15 minutes	Human			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

propan-2-ol					
Route of exposure	Result	Method	Exposure time	Species	Source
Dermal	Not irritating			Rabbit	

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

propan-2-ol					
Route of exposure	Result	Method	Exposure time	Species	Source
Eye	Irritating			Rabbit	

Respiratory or skin sensitisation

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

propan-2-ol				
Route of exposure	Result	Exposure time	Species	Sex
	Not sensitizing		Guinea-pig (<i>Cavia aperea f. porcellus</i>)	

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				

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propan-2-ol

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.

Technical xylene (mixed with ethylbenzene)

Route of exposure	Parameter	Method	Value	Result	Species	Sex	Source
Inhalation (vapor)	NOAEC	OECD 451	<75 ppm		Rat (Rattus norvegicus)		BL dodavatele

toluene

Route of exposure	Parameter	Method	Value	Result	Species	Sex	Source
Inhalation (vapor)	NOAEC	OECD 453	4522 mg/m ³ of air		Rat (Rattus norvegicus)		BL dodavatele
Inhalation (vapor)	LOAEC	OECD 453	2261 mg/m ³ of air		Rat (Rattus norvegicus)		BL dodavatele

Reproductive toxicity

Suspected of damaging the unborn child.

2-methylpropan-1-ol

Effect	Parameter	Method	Value	Exposure time	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

ethanol

Effect	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
Effects on fertility	NOAEL		13800 mg/kg/24h			Mouse		BL dodavatele
Effects on fertility	NOAEC		30400 mg/m ³			Rat (Rattus norvegicus)		BL dodavatele
Developmental toxicity	NOAEL		5200 mg/kg/24h			Rat (Rattus norvegicus)		BL dodavatele
Developmental toxicity	NOAEC		39000 mg/m ³			Rat (Rattus norvegicus)		BL dodavatele

n-butyl acetate

Effect	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
Developmental toxicity	NOAEC	OECD 414	1500 ppm			Rabbit		BL dodavatele

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n-butyl acetate

Effect	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
Developmental toxicity	LOAEC	OECD 414	1500 ppm			Rat (Rattus norvegicus)		BL dodavatele
Effects on fertility	LOAEC	OECD 416	2000 ppm	90 days		Rat (Rattus norvegicus)		BL dodavatele

Technical xylene (mixed with ethylbenzene)

Effect	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
	NOAEC		≥500 ppm			Rat (Rattus norvegicus)		BL dodavatele

toluene

Effect	Parameter	Method	Value	Exposure time	Result	Species	Sex	Source
	NOAEC		2261 mg/m ³ of air			Rat (Rattus norvegicus)		BL dodavatele

Toxicity for specific target organ - single exposure

May cause respiratory irritation. 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		

butan-1-ol

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL			125 mg/kg bw/day		Rat		echa
Inhalation	NOAEL			2.35 mg/l of air		Rat		echa

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ethanol								
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL			1730 mg/kg/24h		Rat (Rattus norvegicus)		BL dodavatel e

Technical xylene (mixed with ethylbenzene)								
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL			250 mg/kg bw/day		Rat (Rattus norvegicus)		BL dodavatel e
Inhalation	NOAEC			≥810 ppm		Dog		BL dodavatel e

toluene								
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL		OECD 453	625 mg/kg bw/day		Rat (Rattus norvegicus)		BL dodavatel e
Oral	LOAEL		OECD 453	1250 mg/kg bw/day		Rat (Rattus norvegicus)		BL dodavatel e

Aspiration hazard

May be fatal if swallowed and enters airways. Data for the components of the mixture are not available.

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

Toxic 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

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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)		

butan-1-ol						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		1.376 g/l	96 hours	Fish (Oncorhynchus mykiss)		echa
EC ₅₀		1.328 g/l	48 hours	Aquatic invertebrates		echa
EC ₅₀		225 mg/l	96 hours	Algae and other aquatic plants		echa
EC ₅₀		4.39 g/l	17 hours	Microorganisms (Photobacterium phosphoreum)		echa

ethanol						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		11200 mg/l		Fish (Oncorhynchus mykiss)		BL dodavatel e
LC ₅₀		5012 mg/l		Invertebrates		BL dodavatel e
NOEC		9.6 mg/l		Invertebrates		BL dodavatel e
LC ₅₀		275 mg/l		Algae (Selenastrum capricornutum)		BL dodavatel e
NOEC		115 mg/l		Algae (Selenastrum capricornutum)		BL dodavatel e
LC ₅₀		4432 mg/l		Algae and other aquatic plants		BL dodavatel e
NOEC		280 mg/l		Algae and other aquatic plants		BL dodavatel e
LC ₅₀		633 mg/kg of dry substance of soil		Higher plants		BL dodavatel e

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ethanol						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		5800 mg/l		Microorganisms (Photobacterium phosphoreum)		BL dodavatel e

ethyl acetate						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		270-333 mg/l	48 hours	Fish (Leuciscus idus)		BL dodavatel e
LC ₅₀		230 mg/l	96 hours	Fish (Oncorhynchus mykiss)		BL dodavatel e
EC ₅₀		644.8 mg/l	24 hours	Crustaceans (Artemia salina)		BL dodavatel e
EC ₅₀		164 mg/l	48 hours	Crustaceans (Daphnia magna)		BL dodavatel e
EC ₅₀		3300 mg/l	48 hours	Algae (Scenedesmus subspicatus)		BL dodavatel e
EC ₅₀		5870 mg/l	15 minutes	Bacteria (Photobacterium phosphoreum)		BL dodavatel e
LOEC		9.65 mg/l	32 hours	Fish (Oncorhynchus mykiss)		BL dodavatel e

n-butyl acetate						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀	OECD 203	18 mg/l	96 hours	Algae (Pimephales promelas)		BL dodavatel e
EC ₅₀	OECD 203	44 mg/l	48 hours	Crustaceans (Daphnia magna)		BL dodavatel e
EC ₅₀	OECD 203	674.7 mg/l	72 hours	Algae and other aquatic plants (Desmodesmus subspicatus)		BL dodavatel e
NOEC	OECD 203	200 mg/l	72 hours	Algae and other aquatic plants (Desmodesmus subspicatus)		BL dodavatel e

propan-2-ol						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		>100 mg/l	96 hours	Fish (Pimephales promelas)		
EC ₅₀		>100 mg/l	48 hours	Daphnia (Daphnia magna)		

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propan-2-ol						
Parameter	Method	Value	Exposure time	Species	Environment	Source
EC ₅₀		>100 mg/l	72 hours	Algae (Scenedesmus subspicatus)		

Technical xylene (mixed with ethylbenzene)						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀	OECD 203	8.4 mg/l	96 hours	Fish (Oncorhynchus mykiss)		BL dodavatel e
IC ₅₀	OECD 202	4.7 mg/l	24 hours	Invertebrates		BL dodavatel e
NOEC	OECD 201	0.44 mg/l	73 hours	Algae (Pseudokirchneriella subcapitata)		BL dodavatel e
EC ₅₀	OECD 201	4.36 mg/l	73 hours	Algae (Pseudokirchneriella subcapitata)		BL dodavatel e

toluene						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		5.5 mg/l	96 hours	Fish (Oncorhynchus kisutch)		BL dodavatel e
LC ₅₀		3.78 mg/l	2 days	Invertebrates (Ceriodaphnia dubia)		BL dodavatel e
EC ₅₀		134 mg/l	3 hours	Algae (Chlorella vulgaris a Chlamydomonas angulosa)		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

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

12.2. Persistence and degradability

Data for the mixture are not available.

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Biodegradability

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

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

propan-2-ol						
Parameter	Method	Value	Exposure time	Environment	Result	Source
					Biodegradable	
		53 %	5 days	Activated sludge		

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					

ethyl acetate						
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]	Source
	30	3 days	Leuciscus idus			BL dodavatele

propan-2-ol						
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]	Source
Log Pow	<1				25°C	

toluene						
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]	Source
	90		Fish (Oncorhynchus mykiss)			BL dodavatele

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

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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

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

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

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. ((obsahuje TOLUEN, ACETON))

14.3. Transport hazard class(es)

3 Flammable liquids

14.4. Packing group

II

14.5. Environmental hazards

Yes.

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

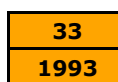
Additional information

Hazard identification No.

UN number

Classification code

Safety signs



F1

3+ hazardous for the environment



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Road transport - ADR

Special provisions 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

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

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.

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15.2. Chemical safety assessment

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

SECTION 16: Other information

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

EUH019	May form explosive peroxides.
EUH066	Repeated exposure may cause skin dryness or cracking.
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.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
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.
H411	Toxic 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.
P103	Read label before use.
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.
P264	Wash hands/ stained body parts/ water and soap thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/eye protection/protective clothing/face protection.
P301+P310	IF SWALLOWED: Immediately call a doctor.
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.
P312	Call a POISON CENTER/doctor if you feel unwell.
P331	Do NOT induce vomiting.
P370+P378	In case of fire: Use foam (alcohol resistant), carbon dioxide, a spray mist, powder to extinguish.
P391	Collect spillage.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to by handing over to a person authorized to dispose of waste or a site designated by the town.

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

Acute Tox.	Acute toxicity
ADR	Agreement concerning the international carriage of dangerous goods by road
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Asp. Tox.	Aspiration hazard

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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
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
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
LOAEC	Lowest observed adverse effect concentration
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
RID	Agreement on the transport of dangerous goods by rail
Skin Irrit.	Skin irritation
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure
UN number	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.

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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 4.0 replaces the SDS version from Tuesday, 8 February 2023. Changes were made in sections 1, 2, 4, 7, 8, 9, 10, 11, 12, 13, 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.

Příloha bezpečnostního listu pro výrobek: Ředidla a pomocné přípravky

1. Expoziční scénář: Průmyslové použití ředidel a pomocných přípravků

Oblast koncového použití : SU3
 Kategorie chemických výrobků : PC9a
 Dílčí procesy kryté expozičním scénářem : PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC 15
 Uvolňování výrobku do životního prostředí : ERC2, ERC4

Procesy a činnosti zahrnuté ve scénáři expozice:

Vztahuje se na použití v nátěrech (barvy, inkousty, lepidla atd.) včetně náhodných expozic během použití (včetně příjmu materiálů, skladování, přípravy a přenosu z velkých nebo středně velkých objemů, aplikace nástřikem, válečkem, rozmetačem, ponořením, průtokem, fluidizovanou vrstvou ve výrobních linkách a při tvorbě filmů) a čištění zařízení, údržby a souvisejících laboratorních činností.

Základní podmínky omezující riziko pro pracovníky:

Trvání pracovních činností : expozice trvající nejvýše 8 hodin / den
 Koncentrace : práce s ředidlem nebo pomocným přípravkem, práce s nátěrovou hmotou, popř. naředěnou na aplikační hustotu
 Teplota : provádění prací při doporučené teplotě +5 až 25°C
 Obecná opatření na omezení rizik : pracovat v ochranném pracovním oděvu, při kontaktu s nátěrovou hmotou používat ochranné rukavice a ochranné brýle, limitní koncentrace látek obsažených ve směsi jsou uvedeny v oddíle 8 bezpečnostního listu a mohou se lišit v závislosti na typu nátěrové hmoty
 Při práci dodržovat obecné zásady hygieny a bezpečnosti práce.
 Prostředí, kde jsou činnosti prováděny : vnitřní prostředí s odvětráváním.

Doplňující požadavky omezující riziko pro pracovníky vykonávající dílčí pracovní činnosti:

Dílčí pracovní činnost prováděná s výrobkem	Kategorie procesu	Požadované doplňující opatření
Přečerpávání z / do zásobníků a zařízení v uzavřeném systému	PROC1 Použití v rámci uzavřeného výrobního procesu	Neidentifikována žádná specifická opatření.
Přečerpávání z / do zásobníků a zařízení v nesespecializovaném zařízení s možností expozice osob a životního prostředí	PROC8a přeprava výrobku (napouštění / vypouštění) z / do nádob / kontejnerů v nesespecializovaných zařízeních	Zajistěte dostatečné větrání. Místní odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu).
Přečerpávání z / do zásobníků a zařízení v nesespecializovaném zařízení s možností expozice osob a životního prostředí	PROC8b přeprava výrobku (napouštění / vypouštění) z / do nádob / kontejnerů v specializovaných zařízeních	Zajistěte dostatečné větrání. Místní odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu).
Plnění linky specializované na zachycování unikajících výparů a aerosolů a na minimalizaci úniku rozlité látky.	PROC9 Přeprava ředidla do malých nádob v uzavřeném systému	Místní odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu).
Míchání, směšování, ředění v otevřených zařízeních s možností expozice osob a životního prostředí	PROC5 míchání nebo směšování v dávkových procesech při výrobě směsí	Zajistěte dostatečné větrání. Místní odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu). Používejte osobní ochranné prostředky.
Aplikace stříkáním	PROC7 průmyslové nástřikové techniky	Zajistěte dostatečné větrání. Robotický nástřik provádět v uzavřených komorách nebo uzavřených kabinách s odsáváním a zajištěním nezávislého přívodu vzduchu. Ruční nástřik provádějte ve stříkacích kabinách nebo v intenzivně větraných prostorách (5-10 výměn vzduchu za hodinu) za použití polomasky nebo masky s filtrem typu A/P2, ochranných rukavic a ochranného oděvu.
Ruční aplikace nátěrových hmot válečkem, štětcem, stěrkou	PROC10 aplikace válečkem, stěrkou nebo štětcem	Zajistěte dostatečné větrání. Místní odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu).
Nanášení nátěrových hmot poléváním nebo	PROC13 úprava	Zajistěte dostatečné větrání. Místní odsávání, popř. dobré

Dílčí pracovní činnost prováděná s výrobkem	Kategorie procesu	Požadované doplňující opatření
ponořením	předmětů máčením a poléváním	větrání (3 – 5 výměn vzduchu za hodinu).
Volné sušení nátěrového filmu při normální teplotě nebo mírně zvýšené teplotě	PROC4 použití v rámci dávkového a jiného procesu s větší možností expozice	Provádět za místního odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu).
Kontinuální postupy sušení a vytvrzování nátěrových hmot za zvýšené teploty v sušících tunelech s odsáváním par	PROC2 použití v rámci nepřetržitého chemického výrobního procesu s příležitostnou kontrolovanou expozicí (např. odběr vzorků)	Neidentifikována žádná specifická opatření.
Násadové postupy sušení a vytvrzování filmu nátěrových hmot za zvýšené teploty v odsávaných komorách.	PROC3 použití v rámci uzavřeného dávkového procesu výroby směsí	Neidentifikována žádná specifická opatření.
Strojní čištění a promývání uzavřených nádrží, zásobníků a zařízení vybavených odsáváním par	PROC3 použití v rámci uzavřeného dávkového procesu výroby směsí	Neidentifikována žádná specifická opatření.
Ruční čištění malých zásobníků, aplikačních zařízení a nářadí	PROC10 aplikace válečkem, stěrkou nebo štětcem	Zajistěte dostatečné větrání. Lokální odsávání v místě potencionálního úniku emisí nebo dobré větrání (3 – 5 výměn vzduchu za hodinu). Použijte osobní ochranné prostředky.
Kontrolní činnosti prováděné s ředidly, nátěrovými hmotami v laboratořích	PROC15 použití jako laboratorního reagentu (práce s výrobkem v laboratořích)	Dobré větrání (3 – 5 výměn vzduchu za hodinu). Používejte osobní ochranné prostředky.
Činnosti s odpady výrobku a odpady znečištěnými výrobkem		Při nebezpečí styku s odpady používat ochranné rukavice. Odpady ukládat do uzavíratelných obalů uložených v dobře větraných skladech nebo ve venkovním prostředí. Odpady zajistit proti úniku do vody a půdy.

Doplňující požadavky omezující riziko pro životní prostředí

Omezování emisí do ovzduší	Při nanášení barvy stříkáním odstraňovat ze vzduchu odtahovaného z pracovních prostor úlet aerosolu barvy. Při překročení limitů spotřeby rozpouštědel stanovených vyhláškou využívat postupy rekuperace rozpouštědel z odpadního vzduchu nebo jinými postupy zaručujícími dodržení emisních parametrů stanovených předpisy pro ochranu ovzduší.
Omezování emisí do vody	Ředidlo, barvu a odpady znečištěné barvou skladovat v objektech stavebně zajištěných proti úniku úkapů a havarijních úniků do podzemních a povrchových vod. Při vypouštění odpadních vod dodržovat parametry stanovené pro dané zařízení vodo hospodářským orgánem.
Odstraňování odpadů	Odpady ředidel, barvy a materiálů znečištěných ředidlem nebo barvou odstraňovat ve spolupráci s osobami oprávněnými k nakládání s odpady.

2. Expoziční scénář: profesionální použití ředidel a pomocných přípravků

Sektor použití : SU22
Kategorie chemických výrobků : PC9a
Dílčí procesy kryté expozičním scénářem : PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC 15, PROC19
Uvolňování výrobku do životního prostředí : ERC8a, REC8d

Procesy a činnosti zahrnuté ve scénáři expozice:

Vztahuje se na použití v nátěrech (barvy, inkousty, lepidla atd.) včetně náhodných expozic během použití (včetně příjmu materiálů, skladování, přípravy a přenosu z velkých nebo středně velkých objemů, aplikace nástřikem, válečkem, rozmetačem, ponořením, průtokem, fluidizovanou vrstvou ve výrobních linkách a při tvorbě filmů) a čištění zařízení, údržby a souvisejících laboratorních činností.

Základní podmínky omezující riziko pro pracovníky:

Trvání pracovních činností : expozice trvající nejvýše 8 hodin / den
Koncentrace : práce s ředidlem nebo pomocným přípravkem, práce s nátěrovou hmotou, popř. naředěnou na aplikační hustotu
Teplota : provádění prací při doporučené teplotě +5 až 25°C

Obecná opatření na omezení rizik

: pracovat v ochranném pracovním oděvu, při kontaktu s náterovou hmotou používat ochranné rukavice a ochranné brýle, limitní koncentrace látek obsažených ve směsi jsou uvedeny v oddíle 8 bezpečnostního listu a mohou se lišit v závislosti na typu náterové hmoty

Prostředí, kde jsou činnosti prováděny

Při práci dodržovat obecné zásady hygieny a bezpečnosti práce.
: vnitřní prostředí s odvětráváním, popř. venkovní prostředí.

Doplňující požadavky omezující riziko pro pracovníky vykonávající dílčí pracovní činnosti:

Dílčí pracovní činnost prováděná s výrobkem	Kategorie procesu	Požadované doplňující opatření
Přečerpávání náterových hmot z / do zásobníků a zařízení v nesespecializovaném zařízení s možností expozice osob a životního prostředí	PROC8a přeprava výrobku (napouštění / vypouštění) z / do nádob / kontejnerů v nesespecializovaných zařízeních	Zajistěte dostatečné větrání. Uvnitř budov: Místní odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu). Venku: zajistit úkapy náterových hmot.
Přečerpávání z / do zásobníků a zařízení v nesespecializovaném zařízení s možností expozice osob a životního prostředí	PROC8b přeprava výrobku (napouštění / vypouštění) z / do nádob / kontejnerů v specializovaných zařízeních	Zajistěte dostatečné větrání. Místní odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu).
Míchání, směšování, ředění náterových hmot v otevřených zařízeních s možností expozice osob a životního prostředí	PROC5 míchání nebo směšování v dávkových procesech při výrobě směsí	Zajistěte dostatečné větrání. Uvnitř: Místní odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu). Venku: činnosti vykonávat nejdéle 4hod./den bez potřeby dalších opatření, nebo používat ochranu dýchacích orgánů s filtrem typu A, ochranné rukavice a oděv.
Aplikace stříkáním	PROC11 neprůmyslové nástřikové techniky	Uvnitř: nástřik provádět v uzavřených komorách nebo uzavřených kabinách s odsáváním a zajištěním nezávislého přívodu vzduchu. Místní odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu). Ruční nástřik provádějte ve stříkacích kabinách nebo v intenzívně větraných prostorách (10-15 výměn vzduchu za hodinu) za použití polomasky nebo masky s filtrem typu A/P2, rukavic, ochranného oděvu. Venku: použití polomasky nebo masky s filtrem typu A/P2, rukavic, ochranného oděvu.
Ruční aplikace náterových hmot válečkem, štětkou, stěrkou	PROC10 aplikace válečkem, stěrkou nebo štětkou	Uvnitř: Místní odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu). Venku: nevyžaduje se další opatření
Nanášení náterových hmot poléváním nebo ponořením	PROC13 úprava předmětů máčením a poléváním	Uvnitř: Místní odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu), rukavic, ochranného oděvu. Venku: používat ochranu dýchacích orgánů s filtrem typu A, rukavice, ochranný oděv.
Násadové postupy sušení a vytvrzování filmu náterových hmot za zvýšené teploty v odsávaných komorách.	PROC3 použití v rámci uzavřeného dávkového procesu výroby směsí	Neidentifikována žádná specifická opatření.
Volné sušení náterového filmu při normální teplotě nebo mírně zvýšené teplotě	PROC4 použití v rámci dávkového a jiného procesu s větší možností expozice	Uvnitř: Provádět za místního odsávání, popř. dobré větrání (3 – 5 výměn vzduchu za hodinu). Venku: Neidentifikována žádná specifická opatření.
Ruční čištění malých zásobníků, aplikačních zařízení a nářadí	PROC10 aplikace válečkem, stěrkou nebo štětkou	Uvnitř: Lokální odsávání v místě potencionálního úniku emisí nebo dobré větrání (3 – 5 výměn vzduchu za hodinu), rukavic, ochranného oděvu. Venku: Neidentifikována žádná specifická opatření.
Činnosti, při kterých dochází k přímému kontaktu s výrobkem bez použití pracovního nástroje	PROC19 ruční mísení s úzkým kontaktem za použití OOPP	Uvnitř: vhodné ochranné rukavice, místní odsávání nebo dobré větrání Venku: vhodné ochranné rukavice
Kontrolní činnosti prováděné s náterovými hmotami v laboratořích	PROC15 použití jako laboratorního reagentu (práce s výrobkem v laboratořích)	Dobré větrání (3 – 5 výměn vzduchu za hodinu).
Činnosti s odpady výrobku a odpady znečištěnými výrobkem		Při nebezpečí styku s odpady používat rukavice. Odpady ukládat do uzavíratelných obalů uložených v dobře větraných skladech nebo ve venkovním prostředí. Odpady zajistit proti úniku do vody a půdy. Uvnitř: dobré větrání (3 – 5 výměn vzduchu za hodinu).

Doplňující požadavky omezující riziko pro životní prostředí

Omezování emisí do ovzduší	Nejsou požadována žádná zvláštní opatření
Omezování emisí do vody	Ředidlo, barvu a odpady znečištěné barvou skladovat v objektech stavebně zajištěných proti úniku úkapů a havarijních úniků do podzemních a povrchových vod. Při vypouštění odpadních vod dodržovat parametry stanovené pro dané zařízení vodohospodářským orgánem.
Odstraňování odpadů	Odpady ředidel, barvy a materiálů znečištěných ředidlem nebo barvou odstraňovat ve spolupráci s osobami oprávněnými k nakládání s odpady.