

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

BALTECH C6000 THINNER

Creation date	24th February 2014	Version	4.0
Revision date	05th February 2024		

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

- 1.1. Product identifier**
Substance / mixture BALTECH C6000 THINNER
UFI mixture
QWSV-WOPP-C001-G0CM
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
Thinner for nitrocellulose paints
Main intended use
PC-PNT-7 Paint removers, thinners and related auxiliaries
Mixture uses advised against
not available
Exposure scenario is attached to the Safety Data Sheet.
- 1.3. Details of the supplier of the safety data sheet**
Distributor
Name or trade name BARVY A LAKY TELURIA,s.r.o.
Address č.p.1, Skrchov, 679 61
Czech Republic
Identification number (CRN) 43420371
VAT Reg No CZ43420371
Phone +420 516 474 211
E-mail info@teluria.cz
Web address http://www.bal.cz
- Competent person responsible for the safety data sheet**
Name BARVY A LAKY TELURIA,s.r.o.
E-mail info@teluria.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, H336
Repr. 2, H361d
STOT RE 2, H373 (central nervous system) (inhalation)

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. May cause drowsiness or dizziness. Suspected of damaging the unborn child. Causes serious eye damage. May cause damage to the central nervous system through prolonged or repeated exposure if inhaled.

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2.2. Label elements

Hazard pictogram



Signal word

Danger

Hazardous substances

 toluene
 butan-1-ol

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.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to the central nervous system through prolonged or repeated exposure if inhaled.

Precautionary statements

P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing vapours/spray.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/eye protection.
P301+P310	IF SWALLOWED: Immediately call a doctor.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
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.
P501	Dispose of contents/container to in accordance with local regulations 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. Substances are neither listed in Annex XIV of REACH nor on the REACH candidate list of substances of very high concern (SVHC).

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

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	65-70	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Repr. 2, H361d STOT RE 2, H373	2, 3
Index: 607-021-00-X CAS: 79-20-9 EC: 201-185-2 Registration number: 01-2119459211-47	methyl acetate	9,7-10,4	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	
Index: 603-002-00-5 CAS: 64-17-5 EC: 200-578-6 Registration number: 01-2119457610-43	ethanol	8-11	Flam. Liq. 2, H225 Eye Irrit. 2, H319	
Index: 607-025-00-1 CAS: 123-86-4 EC: 204-658-1 Registration number: 01-2119485493-29	n-butyl acetate	5-8	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	2
Index: 603-004-00-6 CAS: 71-36-3 EC: 200-751-6 Registration number: 01-2119484630-38	butan-1-ol	4-5	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	reaction mass of ethylbenzene and xylene	4-5	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	1, 2
Index: 603-001-00-X CAS: 67-56-1 EC: 200-659-6 Registration number: 01-2119433307-44	methanol	2,3-2,9	Flam. Liq. 2, H225 Acute Tox. 3, H301+H311+H331 STOT SE 1 (**), H370 Specific concentration limit: STOT SE 1, H370: C ≥ 10 % STOT SE 2, H371: 3 % ≤ C < 10 %	2, 3

Notes

** another exposure route cannot be ruled out

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- 1 Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
- 2 A substance for which exposure limits are set.
- 3 The use of the substance is restricted by Annex XVII of REACH Regulation

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

Take care of your own safety, do not let the affected person walk! Terminate the exposure immediately; move the affected person to fresh air. 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.

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 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. Pay attention: contains organic solvents. Ingestion or vomiting may occur due to aspiration into the lungs and then a rapid absorption and damage to other organs. In case of suspected break-liquid ingredients into the lungs get medical help immediately. Get medical supervision for at least 48 hours after ingestion of liquid.

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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

For workers apart from emergency teams: Avoid inhalation of vapour, prevent skin and eye contact. Wear appropriate protective clothing and gloves. Wear eye protection and face shield if necessary. Use suitable respiratory protection. In closed spaces, ensure fresh air supply. Eliminate all ignition sources. No smoking and no open fire. Keep unnecessary personnel away.

For members of emergency teams: Use appropriate personal protective equipment – protective clothing with antistatic finish and impermeable work shoes. Treat unprotected skin with barrier cream. Anti-chemical protective gloves. For short-time exposure or low concentration, use respirator with organic vapour and dust filter (protection level A/P2); for high concentration and long-term exposure, self-contained respirator is necessary.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water. If possible prevent leakage, close container and place damaged container in protective container.

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. 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.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

7.1.1. General health measures

Use the product after due familiarization with its hazard characteristics and proper training or training in its safe use. Do not eat, drink, smoke on the site. Wash your hands and other contaminated parts of body by soap and water before eating and after the use of product is finished. Abide by requirements on personal hygiene when working with hazardous chemical products.

Use technical equipment on the site to control human and environment exposure. Regularly inspect the equipment, ensure cleaning, timely maintenance and permanent functionality. When working, use the recommended personal protective equipment listed in 8.2 of the Safety Data Sheet and in Annex to the Safety Data Sheet. Keep the protective clothing and protective equipment sound and clean. Immediately replace the damaged protective aids for sound ones. Keep the site, tools and aids clean and in sound state. On the site, keep the product in labelled containers or tanks. Store product waste and wastes contaminated by the product in suitable and properly labelled vessels located on designated marked and protected places. Ensure long-term storing of wastes containing the product outside the site.

7.1.2. Fire precautions

When using the product, prevent potential ignition or explosion of the mixture of product vapour and air caused by contact with open flame, sparks, extremely hot surfaces, electrostatic discharges. Do not smoke on the site, use non-sparking tools. Places with increased occurrence of the vapour-air mixture need to be ventilated to prevent formation of explosive mixtures. Solvent vapours are heavier than air. The site should be protected from electrostatic discharges.

7.1.3. Environmental precautions

Handle the product on a site technically adapted to avoid accidental leakage to sewerage systems, water or soil. Product waste and wastes contaminated by the product to be disposed of as hazardous waste. Waste water contaminated by the product may only be discharged to water reservoirs after the product components are properly removed in a waste water treatment plant or in other appropriate treatment plant able to remove drifted product components from water. Do not pour the product to waste water. Emissions of solvent from point sources are subjected to control requirements acc. to air protection regulations.

7.2. Conditions for safe storage, including any incompatibilities

Store the product in properly marked, closed containers in well ventilated spaces at 5 – 25 °C. The storages must meet the requirements on storing of flammable liquids and substances hazardous for aquatic life and soil. Protect from heat, hot surfaces, sparks, open flame and other ignition sources. No smoking. Store away from oxidising substances and strong acids. Do not store with food, drinks, feed material, medicines. Storages should be protected from static electricity. First aid kit and water suitable for eye rinsing should be available. Keep away from products that are corrosive to metals (eg acids or pool chemicals).

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

Storage temperature min 5 °C, max 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)

The conclusions from the chemical safety assessment of the mixture for use as a solvent, paint thinner and as a cleaning agent are incorporated in the relevant sections of the safety data sheet. Specific requirements for the safe industrial and professional use of the diluent from the point of view of worker protection and environmental protection, developed on the basis of information from exposure scenarios for the given types of use, are given in the annex to the safety data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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

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European Union
Commission Directive (EU) 2019/1831

Substance name (component)	Type	Value	Note
n-butyl acetate (CAS: 123-86-4)	OEL 8 hours	241 mg/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	Note
xylenes	OEL 8 hours	221 mg/m ³	Skin
	OEL 8 hours	50 ppm	
	OEL 15 minutes	442 mg/m ³	
	OEL 15 minutes	100 ppm	
ethylbenzene	OEL 8 hours	442 mg/m ³	Skin
	OEL 8 hours	100 ppm	
	OEL 15 minutes	884 mg/m ³	
	OEL 15 minutes	200 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	
methanol (CAS: 67-56-1)	OEL 8 hours	260 mg/m ³	Skin
	OEL 8 hours	200 ppm	

DNEL

butan-1-ol					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	310 mg/m ³	Chronic effects local		
Consumers	Inhalation	55.36 mg/m ³	Chronic effects systemic		
Consumers	Oral	1.56 mg/kg bw/day	Chronic effects systemic		

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butan-1-ol

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Consumers	Inhalation	155 mg/m ³	Chronic effects local		
Consumers	Dermal	3.125 mg/kg bw/day	Chronic effects systemic		

ethanol

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	950 mg/m ³	Chronic effects systemic		
Workers	Inhalation	1900 mg/m ³	Acute effects local		
Workers	Dermal	343 mg/kg bw/day	Chronic effects systemic		
Consumers	Inhalation	114 mg/m ³	Chronic effects systemic		
Consumers	Inhalation	950 mg/m ³	Acute effects local		
Consumers	Dermal	206 mg/kg bw/day	Chronic effects systemic		
Consumers	Oral	87 mg/kg bw/day	Chronic effects systemic		

methanol

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Dermal	20 mg/kg bw/day	Chronic effects systemic		
Workers	Dermal	20 mg/kg bw/day	Acute effects systemic		
Workers	Inhalation	130 mg/m ³	Chronic effects local		
Workers	Inhalation	130 mg/m ³	Chronic effects systemic		
Workers	Inhalation	130 mg/m ³	Acute effects local		
Workers	Inhalation	130 mg/m ³	Acute effects systemic		
Consumers	Inhalation	26 mg/m ³	Chronic effects systemic		
Consumers	Inhalation	26 mg/m ³	Acute effects systemic		
Consumers	Inhalation	26 mg/m ³	Chronic effects local		
Consumers	Inhalation	26 mg/m ³	Acute effects local		
Consumers	Dermal	4 mg/kg bw/day	Chronic effects systemic		
Consumers	Dermal	4 mg/kg bw/day	Acute effects systemic		
Consumers	Oral	4 mg/kg bw/day	Chronic effects systemic		
Consumers	Oral	4 mg/kg bw/day	Acute effects systemic		

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methyl acetate					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	300 mg/m ³	Chronic effects systemic		
Consumers	Inhalation	64 mg/m ³	Chronic effects systemic		
Workers	Inhalation	3777 mg/m ³	Acute effects systemic		
Consumers	Inhalation	3777 mg/m ³	Acute effects systemic		
Workers	Inhalation	620 mg/m ³	Chronic effects local		
Consumers	Inhalation	133 mg/m ³	Chronic effects local		
Workers	Dermal	43 mg/kg bw/day	Chronic effects systemic		
Consumers	Dermal	21.5 mg/kg bw/day	Chronic effects systemic		
Consumers	Dermal	203 mg/kg bw/day	Acute effects systemic		
Consumers	Oral	21.5 mg/kg bw/day	Chronic effects systemic		
Consumers	Oral	203 mg/kg bw/day	Acute effects systemic		

n-butyl acetate					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	48 mg/m ³	Chronic effects systemic		
Workers	Inhalation	600 mg/m ³	Acute effects systemic		
Workers	Inhalation	300 mg/m ³	Chronic effects local		
Workers	Inhalation	600 mg/m ³	Acute effects local		
Workers	Dermal	7 mg/kg bw/day	Chronic effects systemic		
Workers	Dermal	11 mg/kg bw/day	Acute effects systemic		
Consumers	Inhalation	12 mg/m ³	Chronic effects systemic		
Consumers	Inhalation	300 mg/m ³	Acute effects systemic		
Consumers	Inhalation	35.7 mg/m ³	Chronic effects local		
Consumers	Inhalation	300 mg/m ³	Acute effects local		
Consumers	Dermal	3.4 mg/kg bw/day	Chronic effects systemic		
Consumers	Dermal	6 mg/kg bw/day	Acute effects systemic		
Consumers	Oral	2 mg/kg bw/day	Chronic effects systemic		

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reaction mass of ethylbenzene and xylene

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

toluene

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

PNEC

butan-1-ol

Route of exposure	Value	Value determination	Source
Freshwater environment	0.082 mg/l		
Marine water	0.0082 mg/l		

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butan-1-ol			
Route of exposure	Value	Value determination	Source
Water (intermittent release)	2.25 mg/l		
Microorganisms in sewage treatment	2476 mg/l		
Freshwater sediment	0.324 mg/kg of dry substance of sediment		
Sea sediments	0.0324 mg/kg of dry substance of sediment		
Soil (agricultural)	0.0166 mg/kg of dry substance of soil		

ethanol			
Route of exposure	Value	Value determination	Source
Freshwater environment	0.96 mg/l		
Marine water	0.79 mg/l		
Water (intermittent release)	2.75 mg/l		
Microorganisms in sewage treatment	580 mg/l		
Freshwater sediment	3.6 mg/kg of dry substance of sediment		
Sea sediments	2.9 mg/kg of dry substance of sediment		
Soil (agricultural)	0.63 mg/kg of dry substance of soil		

n-butyl acetate			
Route of exposure	Value	Value determination	Source
Freshwater environment	0.18 mg/l		
Marine water	0.018 mg/l		
Water (intermittent release)	0.36 mg/l		
Microorganisms in sewage treatment	35.6 mg/l		
Freshwater sediment	0.981 mg/kg of dry substance of sediment		
Sea sediments	0.0981 mg/kg of dry substance of sediment		
Soil (agricultural)	0.0903 mg/kg of dry substance of soil		

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reaction mass of ethylbenzene and xylene			
Route of exposure	Value	Value determination	Source
Freshwater environment	327 µg/l		
Marine water	327 µg/l		
Microorganisms in sewage treatment	6.58 mg/l		
Freshwater sediment	12.46 mg/kg of dry substance of sediment		
Sea sediments	12.46 mg/kg of dry substance of sediment		
Soil (agricultural)	2.31 mg/kg of dry substance of soil		

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

8.2. Exposure controls

Conditions of safe use of the registered product composition components specified in exposure scenarios to Safety Data Sheets of the components are given in Annex of the SDS, including the required additional measures restricting the exposure – see the exposure scenarios for the intended uses of the product.

General safety and hygienic measures. When working, do not eat, drink, smoke. Before the break and after the work, hands should be washed with soap and hot water, treated with barrier cream. Overall and local ventilation, effective extraction.

Eye/face protection

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

Skin protection

Skin protection: Protective clothes with antistatic finish, protective shoes; treat unprotected skin with barrier cream.

Hand protection: Chemical resistant protective gloves (EN 374-1:2003). Suitable material – PVA and others, time of penetration corresponding to > 480 minutes. The time of penetration specified by the manufacturer should be followed and the glove replaced after expiration. If damaged, the gloves should be replaced immediately.

The selection of suitable protective gloves does not only depend on their material, but also on other qualitative features. Furthermore, since the mixture can be used for various purposes, mixed with other substances, the suitability of gloves for all purposes cannot be predetermined and must be verified in particular use.

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Respiratory protection

Don't breathe vapours. For short-time exposure or low concentration, use respirator with organic vapour and dust filter (protection level A/P2); for high concentration and long-term exposure, self-contained respirator is necessary.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2. Ensure that containers are properly closed during storage, handling and transport. Secure storage areas against possible leakage of product into the environment (sewerage, water, soil - see 6.2). Do not flush product into drains or watercourses.

More information

In the Czech Republic: The monitoring procedure for the content of substances in workplace air and the specification of protective equipment is determined by the worker responsible for occupational safety and health protection of workers. Legal and natural persons doing business have the obligation to measure and control the values of concentrations of substances in the atmosphere of workplaces and to classify workplaces according to the categorization of work.

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
Odour	after solvents
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	inflammable
Lower and upper explosion limit	data not available
Flash point	4-<19 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	non-soluble (in water)
Kinematic viscosity	data not available
Solubility in water	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Density	0.85-0.87 g/cm ³ at 20 °C
Relative vapour density	data not available
Particle characteristics	data not available
Form	liquid: volatile

9.2. Other information

Oxidising properties	The product has no oxidizing properties.
Content of organic solvents (VOC)	1.00 kg/kg
Total organic carbon (TOC)	0.83 kg/kg

SECTION 10: Stability and reactivity

10.1. Reactivity

When used in the standard way, there is not any dangerous reaction with other substances.

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

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10.2. Chemical stability

The product is volatile and evaporates under standard temperature and pressure. It is stable when stored and handled under standard ambient conditions.

10.3. Possibility of hazardous reactions

No known dangerous reactions when used under standard conditions. Flammable liquid. Vapours may form explosive mixture with air. Vapours are heavier than air, accumulate near the ground and below ground, and the fire can spread over long distances.

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

In terms of health effects, the mixture has not been tested as a whole; the data are adopted from Safety Data Sheets of raw material suppliers. Data that are not specified are currently not available.

Acute toxicity

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

butan-1-ol					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD ₅₀	2292 mg/kg		Rat (Rattus norvegicus)	
Inhalation	LC ₅₀	17.76 mg/l	4 hours	Rat (Rattus norvegicus)	
Dermal	LD ₅₀	3434 mg/kg		Rabbit	

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

methanol					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD ₅₀	1187-2769 mg/kg bw		Rat (Rattus norvegicus)	
Dermal	LD ₅₀	17100 mg/kg		Rabbit	
Inhalation	LC ₅₀	43.68 mg/l of air	6 hours	Cat	
Inhalation	LC ₅₀	82.1-92.6 mg/l of air	6 hours	Rat (Rattus norvegicus)	

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

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n-butyl acetate					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD ₅₀	10760 mg/kg		Rat (Rattus norvegicus)	
Inhalation (gases)	LC ₅₀	2000 ppm	4 hours	Rat (Rattus norvegicus)	
Dermal	LD ₅₀	1400 mg/kg		Rabbit	

reaction mass of ethylbenzene and xylene					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD ₅₀	3523 mg/kg bw		Rat (Rattus norvegicus)	M
Inhalation	LC ₅₀	29000 mg/m ³		Rat (Rattus norvegicus)	
Dermal	LD ₅₀	12126 mg/kg bw		Rabbit	M

toluene					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD ₅₀	5000 mg/kg		Rat (Rattus norvegicus)	
Dermal	LD ₅₀	14000 mg/kg		Rabbit	
Inhalation (gases)	LC ₅₀	30080 mg/m ³	4 hours	Rat (Rattus norvegicus)	
Inhalation (gases)	LC ₅₀	15040 mg/m ³	4 hours	Mouse	

Skin corrosion/irritation

Causes skin irritation. Data for the components of the mixture are not available.

Serious eye damage/irritation

Causes serious eye damage. Data for the components of the mixture are not available.

Respiratory or skin sensitisation

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

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

Suspected of damaging the unborn child. Data for the components of the mixture are not available.

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

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Toxicity for specific target organ - single exposure

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

Toxicity for specific target organ - repeated exposure

May cause damage to the central nervous system through prolonged or repeated exposure if inhaled. Data for the components of the mixture are not available.

Aspiration hazard

May be fatal if swallowed and enters airways. 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.

More information

Human experience:

Toluene

The primary entry of toluene into the body is inhalation, in this case it is absorbed 50% of toluene. It can also be absorbed by the digestive tract or skin contact. Primarily toluene affects the central nervous system, it has a narcotic effect. It causes respiratory irritation, causes cardiac arrhythmia and damages the liver and kidneys. Acute exposure causes headaches, dizziness, fatigue, loss of coordination and color vision, vomiting and lethargy. Chronic exposure causes fatigue, loss of concentration and memory, irritability, persistent headaches. In most cases the symptoms (post exposure) are only temporary. It has a degreasing effect in contact with skin, can pass into the secondary inflammation. After a prolonged exposure there is a risk of dermatitis. Toluene can cross the placenta to the fetus, and may also be present in breast milk.

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

The complete mixture has not been tested. The classification is based on the calculation method. Information on toxic effects are based on the effects of the substances, the data are taken from the safety data sheets of raw materials. The mixture is not classified as dangerous for the environment. The mixture is a source of volatile organic emissions. Avoid release to the environment.

Acute toxicity

butan-1-ol				
Parameter	Value	Exposure time	Species	Environment
LC ₅₀	1376 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
EC ₅₀	1328 mg/l	48 hours	Daphnia (Daphnia magna)	
EC ₅₀	225 mg/l	72 hours	Algae and other aquatic plants	
EC ₁₀	2476 mg/l	17 hours	Microorganisms (Photobacterium phosphoreum)	

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

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ethanol				
Parameter	Value	Exposure time	Species	Environment
LC ₅₀	8140 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
EC ₅₀	9248 mg/l	48 hours	Daphnia (Daphnia magna)	
EC ₅₀	5000 mg/l	72 hours	Algae (Selenastrum capricornutum)	

methanol				
Parameter	Value	Exposure time	Species	Environment
EC ₅₀	18.26 g/l	96 hours	Daphnia (Daphnia magna)	
LC ₅₀	15.4 g/l	96 hours	Fish	
EC ₅₀	22 g/l	96 hours	Algae (Selenastrum capricornutum)	

n-butyl acetate				
Parameter	Value	Exposure time	Species	Environment
LC ₅₀	18 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
EC ₅₀	44 mg/l	48 hours	Daphnia (Daphnia magna)	
EC ₅₀	200 mg/l	72 hours	Algae (Selenastrum capricornutum)	

reaction mass of ethylbenzene and xylene				
Parameter	Value	Exposure time	Species	Environment
LC ₅₀	2.6 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
EC ₅₀	1 mg/l	48 hours	Daphnia (Daphnia magna)	
EC ₅₀	2.2 mg/l	72 hours	Algae (Selenastrum capricornutum)	

toluene				
Parameter	Value	Exposure time	Species	Environment
LC ₅₀	10 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
EC ₅₀	60 mg/l	48 hours	Daphnia (Daphnia magna)	
EC ₅₀	120 mg/l	72 hours	Algae (Scenedesmus subspicatus)	
Log Pow	2.73			

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

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12.2. Persistence and degradability

Data for mixture not available.

Biodegradability

reaction mass of ethylbenzene and xylene				
Parameter	Value	Exposure time	Environment	Result
				Easily biodegradable

12.3. Bioaccumulative potential

Data for mixture not available.

reaction mass of ethylbenzene and xylene					
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
BCF	25.9				

toluene					
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
BCF	16-90				

12.4. Mobility in soil

The mixture is a liquid insoluble in water, in case of leakage into environment, it may be dispersed over large distances and penetrate into underground water. It contains components with the potential of mobility in soil. When released into the soil may occur due to contamination of groundwater.

toluene					
Parameter	Value	Exposure time	Species	Environment	Temperature
Koc	37-178				

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

Volatile organic substances contained in the mixture have the potential to damage ozone layer. Possible impacts on the waste water treatment plant: the concentration of this substance in the waste water to be treated must be in a controlled mode in accordance with the sewage regulations. The mixture may contaminate soil and water and may damage the fauna and flora. According to the Water Management Act, Act No. 254/2001 Coll., The product is considered a dangerous substance and a dangerous substance according to Annex No. 1 of the Water Management Act. Prevent substance from entering groundwater, soil and sewage system.

SECTION 13: Disposal considerations

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

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Creation date	24th February 2014	Version	4.0
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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 03 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 1263

14.2. UN proper shipping name

PAINT

14.3. Transport hazard class(es)

3 Flammable liquids

14.4. Packing group

II

14.5. Environmental hazards

not relevant

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

Additional information

Hazard identification No.

33

UN number

1263

Classification code

F1

Safety signs

3



Tunnel restriction code

(D/E)

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

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Air transport - ICAO/IATA

Packaging instructions passenger	355
Cargo packaging instructions	366

Marine transport - IMDG

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

SECTION 15: Regulatory information

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

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

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

methanol

Restriction	Conditions of restriction
69	Shall not be placed on the market to the general public after 9 May 2019 in windscreen washing or defrosting fluids, in a concentration equal to or greater than 0,6 % by weight.

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

Chemical safety assessment was carried out on the individual substances of the mixture. The respective exposure scenarios are incorporated in Annex of this Safety Data Sheet.

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.
H302	Harmful if swallowed.
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.
H361d	Suspected of damaging the unborn child.
H370	Causes damage to organs.
H371	May cause damage to organs.
H373	May cause damage to the central nervous system through prolonged or repeated exposure if inhaled.

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

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H373	May cause damage to organs through prolonged or repeated exposure.
H301+H311+H331	Toxic if swallowed, in contact with skin or if inhaled.
H312+H332	Harmful in contact with skin or if inhaled.
Guidelines for safe handling used in the safety data sheet	
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing vapours/spray.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/eye protection.
P301+P310	IF SWALLOWED: Immediately call a doctor.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
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.
P501	Dispose of contents/container to in accordance with local regulations by handing over to a person authorized to dispose of waste or a site designated by the town.

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

EUH066 Repeated exposure may cause skin dryness or cracking.

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
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
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
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 ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population

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

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LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population
log K _{ow}	Octanol-water partition coefficient
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
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

Commission Regulation (EU) 2020/878 of 18 June 2020. 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 03 December 2021. Changes were made in sections 1, 2, 11, 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.

EXPOSURE SCENARIO - Annex to the Safety Data Sheet

Recommendations for the safe use of thinner

Industrial use as thinner, solvent and for cleaning	
It covers the use of the product as a thinner, solvent and cleaning agent, including moving the product from warehouse, filling/emptying containers and equipment, exposure during mixing and dilution in the preparation phase, application processes (including spraying, brushing, dipping, mechanical and manual wiping), cleaning and maintenance of relevant equipment, laboratory activities.	
Descriptors of sub-activities covered	PROC1, PROC2, PROC3, PROC5, PROC7, PROC8a, PROC8b, PROC10, PROC13, PROC15, PROC19; ERC4
General conditions of validity of the guidelines	Unless otherwise stated, the following instructions cover work with the product of up to a concentration of 100 %, at a temperature not exceeding ambient temperature by more than 20 °C, 8 hours a day, indoors.
Basic requirements for technical and organizational working conditions and risk reduction measures	<p>The basic principles of good occupational hygiene are applied in the workplace (see section 7 of the Safety Data Sheet).</p> <p>Wear safety goggles or face shield if there is a risk of splashing and eye exposure. Use protective gloves if there is a risk of prolonged contact with your hands (see section 8.2 of the Safety Data Sheet). Work in protective work clothes.</p> <p>Unless otherwise stated below, ensure a good level of general ventilation (3-5 air changes/h or more) or better at the workplace. This can be achieved by ventilation through open windows and doors or by using more efficient forced ventilation systems (10-15 air changes per hour).</p> <p>Use respiratory protection if NPK or PEL values are exceeded (see section 8 of the Safety Data Sheet).</p> <p>Workplaces must meet the requirements for work with flammable liquids capable of producing explosive mixtures of vapours with air.</p> <p>The workplace must meet the requirements against accidental leaks of the product into water or soil.</p>
Specific requirements for safe use from the point of view of employee protection:	
Sub-activities (Process code)	Additional requirements for technical conditions of use and risk reduction measures
Use of the substance in closed continuous and batch processes (PROC1, PROC2, PROC3)	Local exhaust ventilation at the point of potential emission leakage from a closed facility. No additional requirements (work in closed facilities).
Use of the substance during mixing and dilution in an open facility (PROC5)	Use a forced ventilation system (10-15 air changes per hour).
Industrial spray/mist application (PROC7)	Machine applications in a closed chamber equipped with ventilation with laminar flow. Use a respirator complying with the ČSN EN 140 standard with a type A filter or better.
	Machine application in an open space supported by a forced ventilation system (10-15 air changes per hour).
	Machine application in a space of general ventilation, use a respirator complying with the ČSN EN 140 standard with a type A filter or better.
Product transfers, pumping, pouring in an open system with the possibility of exposure (PROC8a)	Avoid exposure for more than 1 hour when working with the product in concentrations higher than 80 %.
Product transfers, pumping, pouring in a closed system with limited exposure (PROC8b)	Use local exhaust ventilation at points of release of emissions into the air.
Application by roller or brush, including cleaning of these tools (PROC10)	Use local exhaust ventilation at points of release of emissions into the air. Avoid exposure for more than 1 hour.
Application by dipping or pouring (PROC13)	Use a forced ventilation system (10-15 air changes per hour).
Manual wiping, mixing and hand application (PROC19)	Wear chemically resistant protective gloves in combination with training (see section 8.2 of the Safety Data Sheet).
Laboratory activities (PROC15)	Handling in a hood or in the presence of vacuum ventilation. Avoid exposure for more than 15 minutes outside the hood.
Storage	In closed containers, no additional requirements.
Activities with product waste and waste contaminated by the product	Wear protective gloves if there is a risk of contact with waste. Store waste in resealable containers stored in well-ventilated areas or outdoors. Secure waste against leakage into water and soil.
Specific requirements from the point of view of environmental protection:	
Requirements from the point of view of air protection	If the limits of solvent consumption set by Decree No.171 /2016 Coll. are exceeded, use procedures for the recovery of solvents from waste air or dispose of solvents by their combustion or by other procedures guaranteeing compliance with the emission parameters laid down by air protection regulations.
Requirements from the point of view of water protection	Before discharging to surface or ground water, clean water contaminated with the product by physical or biological methods to the residual level of pollution prescribed by water protection regulations. When discharging treated waste water, observe the pollution parameters set for the given facility by the water management authority.

Requirements from the point of view of waste management	Dispose of solvent waste from cleaning equipment and work tools as hazardous waste. Prevent leakage or discharge of any liquid waste into surface and ground water. Use, regenerate or dispose of product waste as hazardous waste by combustion, as appropriate.
Professional use as thinner, solvent and for cleaning	
It covers the use of the product as a thinner, solvent and cleaning agent, including moving the product from warehouses, filling/emptying containers and equipment, exposure during mixing and dilution in the preparation phase, application processes (including spraying, brushing, dipping, mechanical and manual wiping) and cleaning and maintenance of relevant equipment.	
Descriptors of sub-activities covered.	PROC1, PROC2, PROC3, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC19; ERC8a (indoor use), ERC8d (outdoor use)
General conditions of validity of the guidelines.	Unless otherwise stated, the following instructions cover work with the product of up to a concentration of 100 %, at a temperature not exceeding ambient temperature by more than 20 °C, 8 hours a day, indoors.
Basic requirements for technical conditions of use and risk reduction measures.	The basic principles of good occupational hygiene are applied in the workplace (see section 7 of the Safety Data Sheet). Wear safety goggles or face shield if there is a risk of splashing and eye exposure. Use protective gloves if there is a risk of prolonged contact with your hands (see section 8.2 of the Safety Data Sheet). Unless otherwise stated below, ensure a good level of basic ventilation (3-5 air changes/h) at indoor workplaces. This can be achieved by ventilation through open windows and doors or more efficient forced ventilation (10-15 air changes per hour). Use respiratory protection if NPK or PEL values are exceeded (see section 8 of the Safety Data Sheet). Workplace measures are in place to prevent the formation of a fire or explosion of a mixture of product vapours with air (see section 7 of the Safety Data Sheet).
Specific requirements for safe use from the point of view of employee protection:	
Sub-activities (Process code)	Additional requirements for technical conditions of use and risk reduction measures
Use of the substance in closed continuous and batch processes (PROC1, PROC2, PROC3)	Local exhaust ventilation at the point of potential emission leakage from a closed facility. No additional requirements (work in closed facilities).
Use of the substance during mixing and dilution in an open facility (PROC5)	When working indoors, use a forced ventilation system (10-15 air changes per hour). There are no requirements for additional measures when working outdoors.
Product transfers, pumping, pouring in an open system with the possibility of exposure (PROC8a) (one of the above procedures can be used)	When working indoors, use local exhaust ventilation at potential emission points. Work indoors without local exhaust ventilation for a maximum of 1 hour per day. For the rest of the work shift, the employee should no longer be exposed to product vapours. Work outdoors.
Product transfers, pumping, pouring in a closed system with limited possibility of exposure (PROC8b)	Local exhaust ventilation at the point of potential emission leakage from a closed facility. No additional requirements (work in closed facilities).
Non-industrial (manual) spray/mist application (PROC11) (one of the above procedures can be used)	Work inside in chambers equipped with local exhaust with an efficiency of at least 80%. Work indoor in intensively ventilated areas (5 - 10 air changes per hour) with a mixture containing a maximum of 25% of the product, for a maximum of 4 hours a day. For the rest of the work shift, the worker should no longer be exposed to product vapors. Work indoors with a concentrated product for a maximum of 1 hour a day. For the rest of the work shift, the worker should no longer be exposed to product vapors. When working indoors, use a protective mask with a filter ensuring a 90% reduction of a solvent content in the inhaled air (respiratory protection complying with the ČSN EN 140 standard with a protective filter type A or better).
Application by dipping or pouring (PROC13)	Use local exhaust ventilation at points of release of emissions into the air.
Manual wiping, mixing and hand application (PROC19) (one of the above procedures can be used)	Use chemical resistant gloves in combination with special training (see section 8.2 of the SDS). When working indoors, work with a mixture containing no more than 25 % of the product. Work with concentrated product for a maximum of 1 hour per day. For the rest of the work shift, the worker should no longer be exposed to product vapors.
One-off manual application using aerosol applicators, by dipping, roller application, brush application (PROC10)	Indoors: local exhaust ventilation or good basic ventilation (3-5 air changes/h) together with the use of respiratory protection meeting the requirements of ČSN EN 140 with a type A filter or better. Outdoors: use respiratory protection meeting the requirements of ČSN EN 140 with a type A filter or better.
Laboratory activities (PROC15)	Handling in a hood or in the presence of vacuum ventilation. Avoid exposure for more than 15 minutes outside the hood.
Storage	In closed containers, no additional requirements.
Equipment cleaning and maintenance	Drain, rinse.
Activities with product waste and waste contaminated by the product	Wear protective gloves if there is a risk of contact with waste. Store waste in resealable containers stored in well-ventilated areas or outdoors. Secure waste against leakage into water and soil.

Specific requirements from the point of view of environmental protection:	
Requirements from the point of view of air protection	There are no special emission control requirements when working outdoors. When working indoors, limit product emissions to the open air depending on the activities performed and the year-round amount of volatile organic compounds used in accordance with the requirements of air protection regulations.
Requirements from the point of view of water protection	Before discharging to surface or ground water, clean water contaminated with the product by physical or biological methods to the residual level of pollution prescribed by water protection regulations or capture and dispose of it as hazardous waste in cooperation with an authorized person.
Requirements from the point of view of waste management	Prevent leakage or discharge of any liquid waste into surface and ground water without treatment When discharging treated waste water, observe the pollution parameters set for the given facility by the water management authority. Dispose of solvent waste from cleaning equipment and work tools as hazardous waste.