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		U 2175 INDUST	ROL® UNIMAT	BASE		
Creat	ion date	30th March 2017				
Revis	on date	29th January 2024	Version	4.0		
SECT	ION 1: Identification	of the substance/mixture	and of the company/ur	ndertaking		
1.1.	Product identifier			OL® UNIMAT BASE		
	Substance / mixture		mixture			
	UFI		EPWV-6024-T001	Г-M10F		
	Other mixture name	5				
	Universal enan	nel matt				
L .2.	Relevant identified uses of the substance or mixture and uses advised against					
	Mixture's intended	use				
	Varnish.					
	Main intended use					
	PC-PNT-2	Paints/coatings - [Decorative			
	Mixture uses advised against					
	•	not be used in ways other ther		1.		
	•	attached to the Safety Data S				
.3.		lier of the safety data shee	et			
	Manufacturer					
	Name or trade	name	BARVY A LAKY TE	,		
	Address		č.p.1, Skrchov, 6	79 61		
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	· ·	responsible for the safety				
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L .4.	Emergency telepho	ne number	info@teluria.cz			
· · · ·	Emergency telepint					

2.1. Classification of the substance or mixture

Classification of the mixture in accordance with Regulation (EC) No 1272/2008 The mixture is classified as dangerous.

Flam. Liq. 3, H226 Eye Irrit. 2, H319 STOT SE 3, H335, H336 Aquatic Chronic 2, H411 **Most serious adverse physico-chemical effects** Flammable liquid and vapour.

Most serious adverse effects on human health and the environment

May cause respiratory irritation. May cause drowsiness or dizziness. Causes serious eye irritation. Toxic to aquatic life with long lasting effects.



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		2501 5411461 9 2024	Version	1.0				
	Label elements							
	Hazard pictogram							
	Signal word							
	Warning							
	Hazardous substances							
	hydrocarbons, C9, aromatics							
	Hazard statements							
	H226	Flammable liquid and vapour.						
	H319	Causes serious eye irritation.						
	H335	May cause respiratory irritation.						
	H336	May cause drowsiness or dizziness.						
	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.					
	P210	No smoking.		open flames and other ignition sources				
	P271		or in a well-ventilated are	ea.				
	P280		oves/eye protection.					
	P305+P351+P338		cautiously with water for nd easy to do. Continue	several minutes. Remove contact rinsing.				
	P501			nce with local regulations by handing aste or a site designated by the town.				
	Supplemental info							
	EUH211	Warning! Hazardou breathe spray or m	ist.	y be formed when sprayed. Do not				
	Density		1.24 - 1.30 g/cm	1 ³ at 23 °C				
,	VOC		0,38 - 0,40 kg/k	g				
-	ТОС		0,34 - 0,36 kg/k	g				
	Dry matter		43 - 46 % volur	ne				
,	VOC limit value		cat. A (i) SB: 50	0 g/l				
	Max. VOC content in condition	the product in its ready to use	499 g/l					
.3.	Other hazards							
	The mixture does no in Commission Dele contain any substan 1907/2006 (REACH)	gated Regulation (EU) 2017/2 nce meet the criteria for PBT	100 or Commission Reg or vPvB in accordance	ties in accordance with the criteria set julation (EU) 2018/605. Mixture does with Annex XIII of Regulation (EC) (IV of REACH nor on the REACH candic				

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 pigments, fillers and anticorrosive pigments in solution of alkyduretan resin in organic solvent with addition of driers and additives. The mixture contains a reaction mixture of o, m, p-xylene and ethylbenzene (ethylbenzene content <26%).

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: 649-356-00-4 EC: 918-668-5 Registration number: 01-2119455851-35	hydrocarbons, C9, aromatics	24-28	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H335, H336 Aquatic Chronic 2, H411 EUH066	2, 4
EC: 905-562-9 Registration number: 01-2119555267-33	xylene (mixture of isomers and ethylbenzene)	7,5	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, 3
Index: 030-011-00-6 CAS: 7779-90-0 EC: 231-944-3 Registration number: 01-21194850-44-40- 0001	trizinc bis(orthophosphate)	<5	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	
Index: 607-038-00-2 CAS: 112-07-2 EC: 203-933-3 Registration number: 01-2119475112-47	2-butoxyethyl acetate	0-3	Acute Tox. 4, H312, H332	3
CAS: 164383-18-0 EC: 605-358-7	Cyclohexanamine, N,N-dimethyl-, compd. with .alphaisotride cylomega hydroxypoly(oxy-1,2-ethanediyl) phosphate	1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411	
CAS: 68187-76-8 EC: 269-123-7 Registration number: 01-2119943732-36	Castor oil, sulfated, sodium salt	0,7-1	Eye Dam. 1, H318	
Index: 603-108-00-1 CAS: 78-83-1 EC: 201-148-0 Registration number: 01-2119484609-23	2-methylpropan-1-ol	<0,5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335, H336	

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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	0,5	Flam. Liq. 2, H225 Eye Irrit. 2, H319	
CAS: 105-44-2 EC: 203-298-2 Registration number: 01-2120789425-42- 0000	4-methylpentan-2-one oxime	0,5	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319	

Notes

- 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 Note P: The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7). When the substance is not classified as a carcinogen at least the precautionary statements (P102-)P260- P262-P301 + P310-P331 shall apply. This note applies only to certain complex oil-derived substances in Part 3.
- 3 A substance for which exposure limits are set.
- 4 Fulfilled Note P

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

SECTION 4: First aid measures

4.1. Description of first aid measures

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

If inhaled

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

If on skin

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

If in eyes

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

If swallowed

Rinse out the mouth with water and provide 2-5 dL of water. DO NOT INDUCE VOMITING! Provide medical treatment if the person has any health problems.



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4.2.	Most importa	nt symptoms and effects, both a	cute and delayed				
	If inhaled		•				
	May cause respiratory irritation. May cause drowsiness or dizziness.						
	If on skin						
	Not expected.						
	If in eyes						
	Causes serious	eye irritation.					
	If swallowed						
	Irritation, naus	ea.					
4.3.	Indication of any immediate medical attention and special treatment needed						
	Symptomatic treatment. If you see a doctor, take this safety data sheet with you.						

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. 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.

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SECTION 7: Handling and storage

Precautions for safe handling 7.1.

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 nonsparking 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. Some shades of the product contain titanium dioxide. Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

7.3. Specific end use(s)

Use in coating compositions was assessed for the indiviual substances of the mixture. Conditions of safe use of the registered coating composition components specified in exposure scenarios to SDSs of the components are incorporated to this Safety Data Sheet and its Annex.

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 2000/39/EC

Substance name (component)	Туре	Value	Note
	OEL 8 hours	221 mg/m ³	
	OEL 8 hours	50 ppm	
xylenes	OEL 15 minutes	442 mg/m ³	Skin
	OEL 15 minutes	100 ppm	
	OEL 8 hours	133 mg/m ³	
	OEL 8 hours	20 ppm	
2-butoxyethyl acetate (CAS: 112-07-2)	OEL 15 minutes	333 mg/m ³	Skin
	OEL 15 minutes	50 ppm	

DNEL

2-butoxyethyl acetate						
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source	
Workers	Inhalation	133 mg/m ³	Chronic effects systemic			
Workers	Inhalation	775 mg/m ³	Acute effects systemic			
Workers	Inhalation	333 mg/m ³	Acute effects local			
Workers	Dermal	102 mg/kg	Chronic effects systemic			
Workers	Dermal	102 mg/kg	Acute effects systemic			
Consumers	Inhalation	67 mg/m ³	Chronic effects systemic			
Consumers	Inhalation	499 mg/m ³	Acute effects systemic			
Consumers	Inhalation	166 mg/m ³	Acute effects local			
Consumers	Dermal	36 mg/kg	Chronic effects systemic			
Consumers	Dermal	27 mg/kg	Acute effects systemic			
Consumers	Oral	4.3 mg/kg	Chronic effects systemic			
Consumers	Oral	18 mg/kg	Acute effects systemic			
2-methylpropan-1-ol						

Workers /	Route of	Value Effect Va	Value	Source		
consumers	exposure	value	Lilect	determination	Jource	
Workers	Inhalation	310 mg/m ³	Chronic effects local			
Consumers	Inhalation	55 mg/m ³	Chronic effects local			



	according	to Commissio	n Regulation (EU) 2020/878	as amended	
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Castor oil, sulfa	ated, sodium s	alt			
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers (0)	Dermal	40.3 mg/kg bw/day	Chronic effects systemic		
Consumers (0)	Dermal	14.4 mg/kg bw/day	Chronic effects systemic		
Consumers (0)	Oral	1.44 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	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	

hydrocarbons, C9, aromatics					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	150 mg/kg	Chronic effects systemic		
Workers	Dermal	25 mg/kg	Chronic effects systemic		
Consumers	Inhalation	32 mg/kg	Chronic effects systemic		
Consumers	Dermal	11 mg/kg	Chronic effects systemic		
Consumers	Oral	11 mg/kg	Chronic effects systemic		

trizinc bis(orthophosphate)					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	5 mg/kg	Chronic effects systemic		
Workers	Dermal	83 mg/kg	Chronic effects systemic		
Consumers	Inhalation	2.5 mg/kg	Chronic effects systemic		
Consumers	Dermal	83 mg/kg	Chronic effects systemic		
Consumers	Oral	0.83 mg/kg	Chronic effects systemic		



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xylene (mixtu	xylene (mixture of isomers and ethylbenzene)				
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	221 mg/m ³	Chronic effects systemic		
Workers	Inhalation	442 mg/m ³	Acute effects systemic		
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	Inhalation	260 mg/m ³	Acute effects local		
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		
Consumers	Inhalation	65.3 mg/m ³	Chronic effects local		

PNEC

2-butoxyethyl acetate			
Route of exposure	Value	Value determination	Source
Freshwater environment	0.304 mg/l		
Marine water	0.0304 mg/l		
Freshwater sediment	2.03 mg/kg of dry substance of sediment		
Sea sediments	0.203 mg/kg of dry substance of sediment		
Soil (agricultural)	0.68 mg/kg of dry substance of soil		
2-methylpropan-1-ol			
Route of exposure	Value	Value determination	Source
Freshwater environment	0.4 mg/l		
Marine water	0.04 mg/l		
Water (intermittent release)	11 mg/l		
Microorganisms in sewage	10 mg/l		

Freshwater sediment

treatment

1.56 mg/kg of dry substance of

sediment



according to Commission Regulation (EU) 2020/878 as amended				
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2-methylpropan-1-ol			
Route of exposure	Value	Value determination	Source
Sea sediments	0.156 mg/kg of dry substance of sediment		
Soil (agricultural)	0.0765 mg/kg of dry substance of soil		
Castor oil, sulfated, sodiu	ım salt		
Route of exposure	Value	Value determination	Source
Freshwater environment	12.4 µg/l		
Microorganisms in sewage treatment	1 mg/l		
Marine water	1.24 µg/l		
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		
	0.63 mg/kg of dry		

Route of exposure	Value	Value determination	Source	
Freshwater environment	0.0206 mg/l			
Marine water	0.0061 mg/l			
Microorganisms in sewage treatment	0.1 mg/l			
Freshwater sediment	117.8 mg/kg of dry substance of sediment			
Sea sediments	56.5 mg/kg of dry substance of sediment			
Soil (agricultural)	35.6 mg/kg of dry substance of soil			

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xylene (mixture of isomers and ethylbenzene)				
Route of exposure	Value	Value determination	Source	
Drinking water	0.327 mg/l			
Marine water	0.327 mg/l			
Water (intermittent release)	0.327 mg/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			

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 – nitrile rubber (0.4 mm), PVA (0.7 mm) and others, time of penetration corresponding to > 480 minutes. The time of penetration specified by

PVA (0.7 mm) 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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according to Commission Regulation (EU) 2020/878 as amended						
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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. Collect spillage. 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, white, black, red, violet, brown, blue, orange, purple, pink, silver, grey, green, yellow
Odour	typical aromatic
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	Flammable liquid and vapour.
Lower and upper explosion limit	data not available
Flash point	>24 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	non-soluble (in water)
Kinematic viscosity	>20.5 mm²/s at 40 °C
Solubility in water	insoluble
Solubility in fats	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Density	1.24 - 1.30 g/cm ³ at 23 °C
Relative vapour density	data not available
Particle characteristics	data not available
Form	Medium viscous liquid without mechanical impurities
Other information	
Evaporation rate	data not available
Oxidising properties	The product has no oxidizing properties.
Explosive properties	The product does not have explosive properties.
Content of organic solvents (VOC)	0.38 - 0.40 kg/kg
Total organic carbon (TOC)	0.34 - 0.36 kg/kg
Solid content (dry matter)	43 - 46 % volume

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9.2.

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VOC limit value		cat. A (i) SB: 500) g/l				
Max. VOC content in the product in its ready to use		499 g/l					

SECTION 10: Stability and reactivity

10.1. Reactivity

condition

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

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

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

Acute toxicity

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

2-butoxyethyl acetate							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	
Oral	LD50		300-2000 mg/kg		Rat (Rattus norvegicus)		
Dermal	LD50		1000-2000 mg/kg		Rabbit		
2-methylpropan-1-ol							
				Exposure			

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Inhalation	LC50		>18.18 mg/l of air		Rat (Rattus norvegicus)	F/M



			egulation (EU) 2020/87			
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		•				
4-methylpentan-	2-one oxime			1-		
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD50	OECD 420	>1.5 ml/kg bw		Rat (Rattus norvegicus)	F/M
Castor oil, sulfate	ed, sodium s	alt				
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD50		15600 mg/kg	time	Rat (Rattus	
Dermal	LD50		>2000 mg/kg	4 hours	norvegicus) Rabbit	—
						1 -
cyclohexanamine ethanediyl) phos		hyl-, compd. wit	h .alphaisotride cy	Iomegahyo	droxypoly(oxy-	1,2-
Route of exposure	-	Method	Value	Exposure time	Species	Sex
Oral	LD50		>2500 mg/kg		Rat (Rattus norvegicus)	
ethanol						
	Davamatar	Mathad		Exposure	Creation	Cav
Route of exposure		Method	Value	time	Species	Sex
Oral	LD₅o		2000 mg/kg		Rat (Rattus norvegicus)	
hydrocarbons, C9	, aromatics					
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD50		3492 mg/kg		Rat (Rattus norvegicus)	
Dermal	LD50		3160 mg/kg		Rabbit	
Inhalation	LC50		6193 mg/m ³	4 hours	Rat (Rattus norvegicus)	
trizinc bis(orthop	hosphate)		-		•	
Route of exposure		Method	Value	Exposure	Species	Sex
Oral	LD ⁵⁰	method	5000 mg/kg	time	Rat (Rattus	Sex
Urai			SUUU IIIg/Kg		norvegicus)	
xylene (mixture	of isomers a	nd ethylbenzen	e)			
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD50	EU B.1	3523 mg/kg bw		Rat (Rattus norvegicus)	М
Inhalation	LC₅o	EU B.2	27124 mg/m ³	4 hours	Rat (Rattus	М
			12126 mg/kg bw		norvegicus) Rabbit	

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Skin corrosion/irritation

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.

Serious eye damage/irritation

Causes serious eye irritation. 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

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.

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

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.

Aspiration hazard

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

11.2. Information on other hazards

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 classified as dangerous for the environment. Toxic to aquatic life with long lasting effects. The mixture is a source of volatile organic emissions. Avoid release to the environment.



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Acute toxicity

2-butoxyethyl acetate							
Parameter	Method	Value	Exposure time	Species	Environmen t		
LC50		>10-100 mg/l	48 hours	Fish (Leuciscus idus)			
EC₅o		>100 mg/l	24 hours	Daphnia (Daphnia magna)			
EC₅o		>100 mg/kg	72 hours	Algae (Scenedesmus subspicatus)			
4-methylpent	tan-2-one oxime						
Parameter	Method	Value	Exposure time	Species	Environmen t		
EC₅o	OECD 202	>100 mg/l	48 hours	Daphnia (Daphnia magna)			
	OECD 201	>100 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)			

Castor oil, sulfated, sodium salt							
Parameter	Method	Value	Exposure time	Species	Environmen t		
LC50		>100 mg/l	96 hours	Fish (Oncorhynchus mykiss)			
EC₅o		100 mg/l	48 hours	Daphnia (Daphnia magna)			
IC50		46 mg/l	72 hours	Algae (Selenastrum capricornutum)			

Cyclohexanamine, N,N-dimethyl-, compd. with .alphaisotride cylomegahydroxypoly(oxy-1,2- ethanediyl) phosphate							
Parameter	Method	Value	Exposure time	Species	Environmen t		
LC50		1-10 mg/l	96 hours	Fish (Oncorhynchus mykiss)			

ethanol	ethanol						
Parameter	Method	Value	Exposure time	Species	Environmen t		
LC50		8140 mg/l	96 hours	Fish (Oncorhynchus mykiss)			
EC₅o		9248 mg/l	48 hours	Daphnia (Daphnia magna)			
EC50		5000 mg/l	72 hours	Algae (Selenastrum capricornutum)			



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hydrocarbons,	hydrocarbons, C9, aromatics						
Parameter	Method	Value	Exposure time	Species	Environmen t		
LC50		9.2 mg/l	96 hours	Fish (Oncorhynchus mykiss)			
EC₅o		3.2 mg/l	48 hours	Daphnia (Daphnia magna)			
EC₅o		2.9 mg/l	72 hours	Algae (Selenastrum capricornutum)			

trizinc bis(orth	trizinc bis(orthophosphate)							
Parameter	Method	Value	Exposure time	Species	Environmen t			
LC50		0.3-5.59 mg/l	96 hours	Fish (Oncorhynchus mykiss)				
LC50		0.89-0.96 mg/l	48 hours	Crustaceans				
EC₅o		0.29-0.32 mg/l	72 hours	Algae and other aquatic plants				

xylene (mixture of isomers and ethylbenzene)						
Parameter	Method	Value	Exposure time	Species	Environmen t	
LC50		2.6 mg/l	96 hours	Fish (Oncorhynchus mykiss)		
EC₅o		1 mg/l	48 hours	Daphnia (Daphnia magna)		
LC50		2.2 mg/l	72 hours	5,		

Chronic toxicity

xylene (mixture of isomers and ethylbenzene)						
Parameter	Value	Exposure time	Species	Environment		
NOEC	>1.3 mg/l	56 days	Fish (Oncorhynchus mykiss)			
NOEC	0.96-1.17 mg/l	7 days	Invertebrates (Ceriodaphnia dubia)			

12.2. Persistence and degradability

Data for mixture not available. Biodegradability

2-butoxyethyl acetate						
Parameter	Method	Value	Exposure time	Environment	Result	
	OECD 301C	70 %	28 days	Activated sludge	Easily biodegradable	

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4-methylpentan-2-one oxime

 Parameter
 Method
 Value
 Exposure time
 Environment
 Result

 0ECD 302B
 98 %
 28 days
 0
 0

xylene (mixture of isomers and ethylbenzene)							
Parameter	Method	Value	Exposure time	Environment	Result		
	OECD 301F	>90 %	28 days		Easily biodegradable		

12.3. Bioaccumulative potential

Data for mixture not available.

2-butoxyethy	2-butoxyethyl acetate						
Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]	
Log Pow		≤4					
4-methylpen	4-methylpentan-2-one oxime						
Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]	
Log Pow	OECD 107	1.54				20°C	
xylene (mix	xylene (mixture of isomers and ethylbenzene)						
Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]	
BCF		25900 ml/kg					

12.4. Mobility in soil

Log Pow

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.

3.12-3.2

xylene (mixture of isomers and ethylbenzene)					
Parameter	Value	Environment	Temperature		
Кос	48-129				

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

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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

13.1. Waste treatment methods

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

Waste management legislation

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

Waste type code

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

Packaging waste type code

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

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

SECTION 14: Transport information

- 14.1. UN number or ID number
 - UN 1263
- **14.2.** UN proper shipping name PAINT
- **14.3.** Transport hazard class(es)3 Flammable liquids
- 14.4. Packing group

14.5. Environmental hazards

The product is dangerous for the environment.

14.6. Special precautions for user Reference in the Sections 4 to 8. The pro-

Reference in the Sections 4 to 8. The product is transported in ordinary and covered means of transport, protected against the weather, shocks and falls.

14.7. Maritime transport in bulk according to IMO instruments Not classified.



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Additional in	formation			
Hazard id	entification No.	30		
UN numb	er	1263		
Classificat	tion code	F1		
Safety sig	ins	3+hazardous for the env	ironment	
			37	
Tunnel re	striction code	(D/E)		
Air transport	- ICAO/IATA			
Packaging	instructions passenger	355		
	Cargo packaging instructions			
Marine trans	port - IMDG			
	ergency plan)	F-E, S-E		
MFAG		310		

SECTION 15: Regulatory information

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

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

15.2. Chemical safety assessment

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	I 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.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.

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H400	Very toxic to aqua	tic life.	
H410	Very toxic to aqua	tic life with long lasting e	effects.
H411		e with long lasting effect	
H312+H332	Harmful in contact	with skin or if inhaled.	
Guidelines for sa	afe handling used in the safet	y data sheet	
P101	If medical advice is	s needed, have product	container or label at hand.
P102	Keep out of reach	of children.	
P210	Keep away from he No smoking.	eat, hot surfaces, sparks	, open flames and other ignition sources.
P271	Use only outdoors	or in a well-ventilated a	rea.
P280	Wear protective gl	oves/eye protection.	
P305+P351+P338			r several minutes. Remove contact
		and easy to do. Continue	
P501			ance with local regulations by handing vaste or a site designated by the town.
A list of addition	al standard phrases used in t		
EUH211	Warning! Hazardou breathe spray or n		ay be formed when sprayed. Do not
EUH066	Repeated exposure	e may cause skin drynes	s or cracking.
Key to abbreviat ADR		-	national carriage of dangerous goods by
BCF	road Bioconcentration F	to	
CAS	Chemical Abstracts		
CLP			ation, labelling and packaging of
EC	substance and mix	tures	
		for each substance liste	
EC₅₀ EINECS		y of Existing Commercia	ected 50% of the population
Eme	Emergency plan	y of Existing Commercia	il Chemical Substances
EU	European Union		
EuPCS	· · • • • •	Catagorication System	
		Categorisation System	
IATA IBC		ransport Association	nd Equipment of Ships Carrying
	Dangerous Chemic	als	a Equipment of Ships Carrying
	Concentration caus	-	
ICAO		Aviation Organization	
IMDG		ime Dangerous Goods	
IMO	International Marit	-	aradianta
INCI		enclature of Cosmetic In	-
ISO	-	nization for Standardizat	
IUPAC		n of Pure and Applied Ch	
LC50	population		ch it can be expected death of 50% of the
LD50	Lethal dose of a su population	idstance in which it can	be expected death of 50% of the

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log Kow	Octanol-water par	tition coefficient	
NOEC	No observed effec	t concentration	
OEL	Occupational Expo	sure Limits	
PBT	Persistent, Bioaccu	umulative and Toxic	
ppm	Parts per million		
REACH	Registration, Evalu	ation, Authorisation and	Restriction of Chemicals
RID	Agreement on the	transport of dangerous g	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 an	d very Bioaccumulative	
Acute Tox.	Acute toxicity		
Aquatic Acute	Hazardous to the	aquatic environment	
Aquatic Chronic	Hazardous to the	aquatic environment (chr	onic)
Asp. Tox.	Aspiration hazard		
Eye Dam.	Serious eye dama	ge	
Flam. Liq.	Flammable liquid		
Skin Irrit.	Skin irritation		
STOT RE	Specific target org	an toxicity - repeated ex	posure
STOT SE	Specific target org	an toxicity - single expos	sure

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 07 February 2022. 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.

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Annex to the Product Safety Data Sheet - EXPOSURE SCENARIO

1. Industrial use

Application sector	: SU 3
Chemical product category	: PC9a
Partial processes covered by exposure	scenario: PROC1, PROC2, PROC 3, PROC4, PROC5, PROC 7, PROC8a, PROC8b,
	PROC10, PROC13, PROC15
Environmental release	: ERC4

Basic conditions to control the hazard for workers:

Duration of work activities	: Covers exposure up to 8 h/d (unless otherwise specified)
Concentration	: Work with standard coating composition or coating composition thinned by solvents containing the same volatile components as the coating composition is anticipated.
Temperature	: Work at temperature up to 20 °C higher than site temperature is anticipated except for the coating composition's drying and hardening processes at increased temperature.
General risk management measures	: Wear protective working clothes. Wear protective gloves and eye protection if in danger of contact with the coating composition. Basic training required. Abide by general principles of safe and hygienic work with chemical substances.
Site where the activities are performed	: Indoor use is anticipated.

Additional requirements to control the hazard for workers carrying out partial work activities:

Partial work activities with the product (Partial contributing scenarios)	Process category	Required additional measures to control worker exposure
Pumping from/to containers and devices within a closed system with no possibility to release emission	PROC 1 Use within closed production process	Does not require further risk control measures.
Pumping the coating composition from/to containers and devices at non dedicated facility with potential human and environment exposure	PROC 8a Transfer of the product (charging / discharging) to/from vessels/large containers at non dedicated facilities	Local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour).
Pumping the coating composition from/to containers and devices at non dedicated facility with potential human and environment exposure	PROC 8b Transfer of the product (charging / discharging) to/from vessels/large containers at dedicated facilities	Local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour).
Mixing, blending, thinning of coating composition in open devices with possible exposure to volatile components of the coating composition	PROC5 Mixing or blending in batch processes at mixture manufacturing (excl. charging and discharging of vessels).	Local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour).
Application by spraying.	PROC 7 Industrial spraying.	Robotic spraying in closed chambers or closed cabs with laminar extraction. In course of spraying, enter the chambers only with self-contained respirator.
		Manual spraying in spraying chambers with laminar flow of extracted air directed from the worker or in intensively ventilated spaces (5-10 air exchanges per hour) with respiratory protection (half-face or full-face respirator) provided with type A/P2 filter.
Manual coating composition application by	PROC 10 Roller, palette knife or	Local air extraction at potential emission release
roller, brush or palette knife.	brush application	or good ventilation (3-5 air exchanges per hour).
Dipping or pouring application of coating	PROC 13 Treatment of articles by	Local air extraction at potential emission release
composition.	dipping and pouring	or good ventilation (3-5 air exchanges per hour).
Free drying of coating composition film at standard or slightly increased ambient temperature (by max. 20 °C)	PROC 4 Use within batch or other process where opportunity for exposure arises	Carry out in well ventilated spaces (3-5 air exchanges per hour).
Continuous drying and hardening processes of the coating composition film at increased temperature in drying tunnels equipped with vapour extraction	PROC 2 Use within continuous chemical production process with occasional controlled exposure (e.g. at sampling).	Does not require further risk control measures.
Batch drying and hardening processes of the coating composition film at increased temperature in extracted chambers	PROC 3 Use within closed batch process of mixture manufacturing.	Does not require further risk control measures.
Machine cleaning and washing of closed tanks, containers and devices equipped with vapour extraction	PROC 3 Use within closed batch process of mixture manufacturing	Does not require further risk control measures.
Manual cleaning of small containers, application devices and tools	PROC 10 Roller, palette knife or brush application (by a tool held in hand) PROC8a Transfer of the product (charging / discharging) to/from	Local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour).
	vessels/large containers at non dedicated facilities	

Laboratory checks on the coating composition	PROC 15 Use as laboratory reagent (laboratory work with the product)	Good ventilation (3 – 5 air exchanges per hour).
Activities involving product waste and waste contaminated by the product		If in risk of contact with waste, wear protective gloves. Store the waste in closable containers stored in well ventilated storages or outdoor.

Additional requirements to control environmental hazards

Air emission control	When spraying, remove fly coating mist from the air extracted from the work site. If the limits for solvent consumption defined in Ordinance no. 415/2012 Coll. are exceeded, use solvent recuperation from waste air or remove the solvents by incineration or other processes guaranteeing observation of emission parameters specified in air protection regulations.
Water emission control	Store the coating and waste contaminated by coat in buildings structurally protected from leakage release and emergency release to surface and ground water. Treat water contaminated by coat compounds and remove solid impurities and organic compounds by sedimentation, filtration, biological treatment processes or special processes developed for treatment of water contaminated by coating compositions before discharging to surface water. When discharging the treated waste water, observe the contamination parameters specified for the involved facility by water management authority.
Disposal of waste	Dispose of coat waste and materials contaminated by coat and its compounds in cooperation with authorised persons as of hazardous waste. Dispose of solvent waste from tools and device cleaning as of hazardous waste. Prevent release or discharge of any liquid waste to surface and ground water unless it is treated and coating composition compounds are removed.

2. Professional use

Application sector	: SU 22
Chemical product category	: PC9a
Partial processes covered by e	posure scenario: PROC 3, PROC4, PROC5, PROC 7, PROC8a, PROC8b, PROC10, PROC11,
	PROC13, PROC15, PROC19
Environmental release	: ERC 8a, ERC 8d

Basic conditions to control the hazard for workers:

Duration of work activities	: Covers exposure up to 8 h/d (unless otherwise specified)
Concentration	: Work with standard coating composition or coating composition thinned by solvents containing the same volatile components as the coating composition is anticipated.
Temperature	: Work at temperature up to 20 °C higher than site temperature is anticipated except for the coating composition's drying and hardening processes at increased temperature.
General risk management measures	: Wear protective working clothes. Wear protective gloves and eye protection if in danger of contact with the coating composition. Basic training required. Abide by general principles of safe and hygienic work with chemical substances.
Site where the activities are performed	: Indoor and outdoor use is anticipated.

Additional requirements to control the hazard for workers carrying out partial work activities:

Partial work activities with the product (Partial contributing scenarios)	Process category	Required additional measures to control worker exposure
Pumping the coating composition from/to containers and devices at non dedicated facility with potential human and environment exposure Pumping the coating composition from/to containers and devices at non dedicated facility with potential human and environment exposure	PROC 8a Transfer of the product (charging / discharging) to/from vessels/large containers at non dedicated facilities PROC 8b Transfer of the product (charging / discharging) to/from vessels/large containers at dedicated facilities	Indoor: local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour). Outdoor: secure catch dripping paint Indoor: local air extraction at potential emission release or good ventilation (5 - 10 air exchanges per hour). Outdoor: does not require further risk control
Mixing, blending, thinning of coating composition in open devices with possible exposure to volatile components of the coating composition	PROC5 Mixing or blending in batch processes at mixture manufacturing (excl. charging and discharging of vessels).	measures Indoor: local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour). Outdoor: working process a maximum of 4h per day does not require further risk control measures or use respiratory protection with filter type A.
Application by spraying.	PROC 11 Non industrial spraying.	Indoor: do spraying in spraying chambers with laminar flow of extracted air directed from the worker or in intensively ventilated spaces (5-10 air exchanges per hour) with respiratory

		protection (half-face or full-face respirator) provided with type A/P2 filter.
		Outdoor: use respiratory protection with filter type A/P2.
Manual coating composition application by roller, brush or palette knife.	PROC 10 Roller, palette knife or brush application	Indoor: local air extraction at potential emission release or good ventilation (5 - 10 air exchanges per hour). Outdoor: does not require further risk control measures
Dipping or pouring application of coating composition.	PROC 13 Treatment of articles by dipping and pouring	Indoor: local air extraction at potential emission release or good ventilation (5 - 10 air exchanges per hour).
		Outdoor: use respiratory protection with filter type A.
Free drying of coating composition film at standard or slightly increased ambient temperature (by max. 20 °C)	PROC 4 Use within batch or other process where opportunity for exposure arises	Indoor: carry out in well ventilated spaces (5 10 air exchanges per hour). Outdoor: does not require further risk control measures
Batch drying and hardening processes of the coating composition film at increased temperature in extracted chambers	PROC 3 Use within closed batch process of mixture manufacturing.	Does not require further risk control measures.
Machine cleaning and washing of closed tanks, containers and devices equipped with vapour extraction	PROC 3 Use within closed batch process of mixture manufacturing	Does not require further risk control measures.
Manual cleaning of small containers, application devices and tools	PROC 10 Roller, palette knife or brush application (by a tool held in hand)	Indoor: local air extraction at potential emission release or good ventilation (5 - 10 air exchanges per hour). Outdoor: does not require further risk control measures
Laboratory checks on the coating composition	PROC 15 Use as laboratory reagent (laboratory work with the product)	Good ventilation (3 – 5 air exchanges per hour).
Manual activities involving hand contact	PROC19 Hand-mixing with intimate contact and only PPE available	Indoor. Use protective gloves, local air extraction at potential emission release or good ventilation Outdoor: use protective gloves
Activities involving product waste and waste contaminated by the product		If in risk of contact with waste, wear protective gloves. Store the waste in closable containers stored in well ventilated storages or outdoor.

Additional requirements to control environmental hazards

Air emission control	Does not require special risk control measures
Water emission control	Store the paints and waste contaminated by paints in buildings structurally protected from leakage release and emergency release to surface and ground water. Clean up waste water contaminated by paints in the Municipal wastewater treatment plants before discharging to surface water or capture or dispose them as hazardous waste in cooperation with the authorized person. Overspray and drips paint as possible to capture and dispose as hazardous waste.
Disposal of waste	Prevent leakage or discharge of any liquid waste into surface and groundwater unless it is cleaned up from the paint compounds. Dispose of paint waste and materials contaminated by paints and its compounds in cooperation with authorised persons as of hazardous waste. Dispose of solvent waste from tools and device cleaning as of hazardous waste.