

ion date 14th December 2022 Version 5.0 ION 1: Identification of the substance/mixture and of the company/undertaking S.0 Product identifier S2321 0 EPOLEX ENAMEL FOR BA Substance / mixture mixture UFI J14W-N04H-G00E-J947 Relevant identified uses of the substance or mixture and uses advised against Mixture's intended use Varnish. Two-component epoxy glossy enamel for bath tubs (component A). Main intended use PC-PNT-3 Paints/coatings - Protective and functional Mixture uses advised against The product should not be used in ways other then those referred in Section 1. Exposure scenario is attached to the Safety Data Sheet. Details of the supplier of the safety data sheet Manufacturer Name or trade name BARVY A LAKY TELURIA,s.r.o. Address č.p.1, Skrchov, 679 61 Czech Republic Czech Republic Identification number (CRN) 43420371 VAT Reg No CZ43420371 VAT Reg No CZ43420371 VAT Reg No CZ43420371 Web address http://www.bal.cz Competent person responsible for the safety data sheet		S2321 O EPOLEX E	NAMEL FOR BA	TH TUBS
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,	Name			ELURIA,s.r.o.
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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. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318 STOT SE 3, H335 STOT RE 2, H373 Aquatic Chronic 2, H411

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

Most serious adverse physico-chemical effects

Flammable liquid and vapour.

Most serious adverse effects on human health and the environment

Causes skin irritation. May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure. Causes serious eye damage. May cause respiratory irritation. Toxic to aquatic life with long lasting effects.

Page 1/17



according to Commission Regulation (EU) 2020/878 as amended				
	S2321 O EPOLEX EI	NAMEL FOR BA	TH TUBS	
Creation date	09th January 2014			
Revision date	14th December 2022	Version	5.0	

2.2. Label elements



Danger

Hazardous substances

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight 700-1100) xylene (mixture of isomers and ethylbenzene) hydrocarbons, C9, aromatics butan-1-ol

Hazard statements	
H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
Precautionary statements	
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/eye protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a doctor.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
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

Page 2/17



			3 differded
	S2321 O EPOLEX EI	NAMEL FOR BAT	TH TUBS
Creation date	09th January 2014		
Revision date	14th December 2022	Version	5.0
Density		1,15 - 1,18 g/cm	³ při 23 °C (hardened mixture)
VOC		0,40 - 0,45 kg/kg	3
тос		0,34 - 0,39 kg/kg	3
Dry matter	Dry matter		
VOC limit value cat. A (j) SB: 500 g/l) g/l	

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

Requirements for child-resistant fastenings and tactile warning of danger Container must carry a tactile warning of danger.

Max. VOC content in the product in its ready to use

2.3. Other hazards

condition

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).

456 g/l

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of inorganic pigments and fillers in solution of epoxy resin in organic solvents.

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: 603-074-00-8 CAS: 25068-38-6 EC: 500-033-5 Registration number: polymer	reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight 700-1100)	<43	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411 Specific concentration limit: Skin Irrit. 2, H315; Eye Irrit. 2, H319: $C \ge 5 \%$	
EC: 905-562-9 Registration number: 01-2119555267-33	xylene (mixture of isomers and ethylbenzene)	<15	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: 649-356-00-4 EC: 918-668-5 Registration number: 01-2119455851-35	hydrocarbons, C9, aromatics	10	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H335, H336 Aquatic Chronic 2, H411 EUH066	2, 4
Index: 603-004-00-6 CAS: 71-36-3 EC: 200-751-6 Registration number: 01-2119484630-38	butan-1-ol	5	Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335, H336	

Page 3/17

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according to Commission Regulation	(EU) 2020/878 as amended
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	S2321 O EPOLEX EI	NAMEL FOR BA	TH TUBS	
Creation date	09th January 2014			
Revision date	14th December 2022	Version	5.0	

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

If swallowed

Rinse out the mouth with clean water. DO NOT INDUCE VOMITING! Provide medical treatment.

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

If inhaled

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

May cause an allergic skin reaction.

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. If you see a doctor, take this safety data sheet with you.



according to Commission Regulation (EU) 2020/878 as amended				
	S2321 O EPOLEX E	NAMEL FOR BA	TH TUBS	
Creation date	09th January 2014			
Revision date	14th December 2022	Version	5.0	

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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. 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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	according to Commission Rec	julation (EU) 2020/878 a	as amended	
	S2321 O EPOLEX E	NAMEL FOR BA	TH TUBS	
Creation date	09th January 2014			
Revision date	14th December 2022	Version	5.0	

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.

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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)

Use in coating compositions was assessed for all of substances except epoxy resin. 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.

European Union		Com	mission Directive 2000/39/EC
Substance name (component)	Туре	Value	Note
xylenes	OEL 8 hours	221 mg/m ³	Skin

Page 6/17

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	S2321 O EPOLEX EN	NAMEL FOR BA	TH TUBS	
Creation date	09th January 2014			
Revision date	14th December 2022	Version	5.0	

European Union

Commission Directive 2000/39/EC

Substance name (component)	Туре	Value	Note
	OEL 8 hours	50 ppm	
xylenes	OEL 15 minutes	442 mg/m ³	Skin
	OEL 15 minutes	100 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		
Consumers	Inhalation	155 mg/m ³	Chronic effects local		
Consumers	Dermal	3.125 mg/kg bw/day	Chronic effects systemic		
hydrocarbons, C9,	aromatics				
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Consumers	Inhalation	32 mg/kg	Chronic effects systemic		
Workers	Inhalation	151 mg/m ³	Chronic effects systemic		
Workers	Dermal	12.5 mg/kg bw/day	Chronic effects systemic		
Consumers	Dermal	7.5 mg/kg bw/day	Chronic effects systemic		
Consumers	Oral	7.5 mg/kg bw/day	Chronic effects systemic		



	S2321 () EPOLEX	KENAMEL FOR BA	TH TUBS	
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xylene (mixtur	e 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		

butan-1-ol

Route of exposure	Value	Value determination	Source
Freshwater environment	0.082 mg/l		
Marine water	0.0082 mg/l		
Water (intermittent release)	2.25 mg/l		
Microorganisms in sewage treatment	2476 mg/l		
Freshwater sediment	0.324 mg/kg of food		
Sea sediments	0.0324 mg/kg of food		
Soil (agricultural)	0.0166 mg/kg of dry substance of soil		
xylene (mixture of isomers a	and ethylbenzene)	•	
Route of exposure	Value	Value determination	Source
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 food		
Sea sediments	12.46 mg/kg of food		
Soil (agricultural)	2.31 mg/kg of dry substance of soil		



	according to Commission Rec	Julation (EU) 2020/878 a	s amended	
	S2321 O EPOLEX EI	NAMEL FOR BA	TH TUBS	
Creation date	09th January 2014			
Revision date	14th December 2022	Version	5.0	

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xylene (mixture of isomers and ethylbenzene)

Route of exposure Value Value determination Source Freshwater environment 0.327 mg/l Image: Constraint of the second second

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, PVA, fluoroelastomer 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.

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

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	white
Odour	typical aromatic
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	>25 °C (EN ISO 2719)
Auto-ignition temperature	data not available
Decomposition temperature	data not available
рН	non-soluble (in water)
Kinematic viscosity	>20,5 mm ² /s at 40 °C
Solubility in water	data not available

Page 9/17

BARVY A LAKY TELURIA, s.r.o.
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IČ: 43420371



		S2321 O EPOLEX ENA	MEL FOR BAT	TH TUBS	
	on date	09th January 2014			
Revisi	on date	14th December 2022	Version	5.0	
	Partition coeffic	cient n-octanol/water (log value)	data not available		
	Vapour pressur	re la	data not available		
	Density and/or	relative density			
	Density		1,15 - 1,18 g/cm ³	³ at 23 °C (hardened mixture)	
	Relative vapour density Particle characteristics		data not available		
	Particle charact	teristics	data not available		
9.2.	Other informa	ation			
	Oxidising prope	erties	The product has n	no oxidizing properties.	
	Ignition temper	rature	>420 °C (EN ISO	14522)	
	Explosive prope	erties	The product does explosive when bl	not have explosive properties but can ended with air.	
	Content of orga	anic solvents (VOC)	0,40 - 0,45 kg/kg	(hardened mixture)	
	Total organic c	arbon (TOC)	0,34 - 0,39 kg/kg	(hardened mixture)	
	Solid content (dry matter)	49 % volume (har	rdened mixture)	
	VOC limit value	2	cat. A (j) SB: 500	g/l	
	Max. VOC conto condition	ent in the product in its ready to use	456 g/l		

SECTION 10: Stability and reactivity

10.1. Reactivity

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.



	S2321 O EPOLEX E	NAMEL FOR BA	TH TUBS	
Creation date	09th January 2014			
Revision date	14th December 2022	Version	5.0	

Based on available data the classification criteria are not met.

butan-1-ol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD50		2292 mg/kg		Rat (Rattus norvegicus)	
Inhalation	LC₅o		17.76 mg/l	4 hours	Rat (Rattus norvegicus)	
Dermal	LD50		3434 mg/kg		Rabbit	
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	LC₅o		6193 mg/m ³	4 hours	Rat (Rattus norvegicus)	
reaction product: b	oisphenol-A-(epi	chlorhydrin); epox	y resin (number avera	age molecular	weight 700-1100)

Route of exposure Pa	Parameter	Method	Value	Exposure time	Species	Sex
Oral LI	_D50		2000 mg/kg bw		Rat (Rattus norvegicus)	

xylene (mixture of isomers and ethylbenzene)

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD50	EU B.1	3523 mg/kg bw		Rat (Rattus norvegicus)	М
Dermal	LD50		12126 mg/kg bw		Rabbit	
Inhalation (vapor)	LC50		6350-6700 ppm	4 hours	Rat (Rattus norvegicus)	Μ

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye damage.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Carcinogenicity

Based on available data the classification criteria are not met.

Reproductive toxicity

Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

May cause respiratory irritation.

Toxicity for specific target organ - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Page 11/17

BARVY A LAKY TELURIA, s.r.o. č.p. 1, 679 61 Skrchov, Czech Republic IČ: 43420371



	according to Commission Rec	gulation (EU) 2020/878 a	s amended	
	S2321 O EPOLEX E	NAMEL FOR BA	TH TUBS	
Creation date	09th January 2014			
Revision date	14th December 2022	Version	5.0	

Aspiration hazard

Based on available data the classification criteria 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

Acute 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. butan-1-ol

Parameter	Value	Exposure time	Species	Environment
LC50	1376 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
EC50	1328 mg/l	48 hours	Daphnia (Daphnia magna)	
EC₅o	225 mg/l	72 hours	Algae and other aquatic plants	
EC10	2476 mg/l	17 hours	Microorganisms (Photobacterium phosphoreum)	
hydrocarbons, C	9, aromatics			
Parameter	Value	Exposure time	Species	Environment
LL 50	9.2 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
EL 50	3.2 mg/l	48 hours	Daphnia (Daphnia magna)	
ErL 50	2.9 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	
reaction product	: bisphenol-A-(epichlorh	nydrin); epoxy resin (numbe	r average molecular weight 700	-1100)
Parameter	Value	Exposure time	Species	Environment
EC50	2 mg/l	48 hours	Aquatic invertebrates	
EC₅o	9 mg/l	48 hours	Algae and other aquatic plants	
xylene (mixture	e of isomers and ethylbe	nzene)		
Parameter	Value	Exposure time	Species	Environment
LC50	2.6 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
EC50	1 mg/l	48 hours	Daphnia (Daphnia magna)	

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		X ENAMEL FOR	DAINIUDS	
reation date evision date	09th January 2014 14th December 2022	Version	5.0	
xylene (mixture	e of isomers and ethylbenzene	2)		
Parameter	Value	Exposure time	Species	Environment
LC50	2.2 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	

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

Biodegradability hydrocarbons, C9, aromatics

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

Data for mixture not available.

12.3. Bioaccumulative potential

xylene (mixture of isomers and ethylbenzene)

Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
Log Pow	3.12-3.2				
BCF	6-23.4				
Data fau malutura ma					

Data for mixture not available.

12.4. Mobility in soil

xylene (mixture of isomers and ethylbenzene)

Parameter	Value	Environment	Temperature
Кос	48-540		

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.

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

Page 13/17



	according to Commission Reg	julation (EU) 2020/878 a	as amended	
	S2321 O EPOLEX EI	NAMEL FOR BA	TH TUBS	
Creation date	09th January 2014			
Revision date	14th December 2022	Version	5.0	

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

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 III - substances presenting low danger
 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 product is t

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.



	according to Commission R	egulation (EU) 2020/878 a	as amended	
	S2321 O EPOLEX	ENAMEL FOR BA	TH TUBS	
Creation date Revision date	09th January 2014 14th December 2022	Version	5.0	
Additional inf Hazard ide UN numbe Classificat Safety sig	entification No. er ion code	30 1263 F1 3+hazardous for the env	ironment	
Cargo pac Marine transp	instructions passenger kaging instructions	355 366 F-E, S-E 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.

15.2. Chemical safety assessment

The chemical safety assessment has been carried out on all substances of the mixture, except epoxy resin. The relevant exposure scenarios for the components are incorporated in the annex to the safety data sheet.

SECTION 16: Other information

A list of standard risk phras	es used in the safety data sheet
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H312+H332	Harmful in contact with skin or if inhaled.
Guidelines for safe handling	y used in the safety data sheet
P101	If medical advice is needed, have product container or label at hand.

Page 15/17

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	S2321 O EPOLEX EN	NAMEL FOR B	ATH TUBS	
Creation date	09th January 2014			
Revision date	14th December 2022	Version	5.0	
D102		6 - I- il -l		
P102	Keep out of reach o			
P210	Keep away from nea No smoking.	at, not surfaces, spark	s, open flames and other ignition sources.	
P261	Avoid breathing vap	ours/spray.		
P273	Avoid release to the	environment.		
P280	Wear protective glo	ves/eye protection.		
P305+P351+P338		autiously with water fo nd easy to do. Continu	or several minutes. Remove contact le rinsing.	
P310	Immediately call a o	loctor.		
P333+P313	If skin irritation or r	ash occurs: Get medio	cal advice/attention.	
P501			dance with local regulations by handing waste or a site designated by the town.	
A list of additional	standard phrases used in th	e safety data sheet		
EUH066	Repeated exposure	may cause skin dryne	ess or cracking.	
Other important in	formation about human hea	Ith protection		
	ot be - unless specifically appro . The user is responsible for adl		rer/importer - used for purposes other tha nealth protection regulations.	
•	ns and acronyms used in the			
ADR			national carriage of dangerous goods by	
BCF	Bioconcentration Fa	ctor		
CAS	Chemical Abstracts	Service		
CLP	Regulation (EC) No substance and mixt		cation, labelling and packaging of	
EC	Identification code f	or each substance list	ed in EINECS	
EC10	Concentration of a s	substance when it is a	ffected 10% of the population	
EC₅o	Concentration of a s	substance when it is a	ffected 50% of the population	
EINECS	European Inventory	of Existing Commerci	ial Chemical Substances	
ELso	Effective Loading fo	r 50% of the tested o	rganisms	
EmS	Emergency plan			
EU	European Union			
EuPCS	European Product C	ategorisation System		
IATA	International Air Tra	ansport Association		
IBC	International Code Dangerous Chemica		And Equipment of Ships Carrying	
ICAO	International Civil A	viation Organization		
IMDG	International Mariti	ne Dangerous Goods		
IMO	International Mariti	me Organization		
INCI	International Nome	nclature of Cosmetic I	ngredients	
ISO	International Organ	ization for Standardiza	ation	
IUPAC	International Union	of Pure and Applied C	hemistry	
LC50	Lethal concentration population	Lethal concentration of a substance in which it can be expected death of 50% of the		
LD50		ostance in which it can	be expected death of 50% of the	
LLso		0% of tested organisr	ns	
log Kow	Octanol-water parti	-		
NOEC	No observed effect			
OEL	Occupational Expos			

Page 16/17



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

S2321 O EPOLEX ENAMEL FOR BATH TUBS			
Creation date	09th January 2014		
Revision date	14th December 2022	Version	5.0
PBT	Persistent, Bioaccu	nulative and Toxic	
ppm	Parts per million		
REACH	Registration, Evalua	ation, Authorisation and	Restriction of Chemicals
RID	Agreement on the t	ransport of dangerous g	oods by rail
UN	Four-figure identific Model Regulations	ation number of the sub	stance or article taken from the UN
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials		
VOC	Volatile organic con	npounds	
vPvB	Very Persistent and	very Bioaccumulative	
Acute Tox.	Acute toxicity		
Aquatic Chronic	Hazardous to the a	quatic environment (chro	onic)
Asp. Tox.	Aspiration hazard	Aspiration hazard	
Eye Dam.	Serious eye damag	Serious eye damage	
Flam. Liq.	Flammable liquid		
Skin Irrit.	Skin irritation		
Skin Sens.	Skin sensitization		
STOT RE	Specific target orga	n toxicity - repeated exp	oosure
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 5.0 replaces the SDS version from 17.12.2020. Overall revision of SDS according to Commission Regulation (EU) 2020/878.

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.

Page 17/17

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Annex to the Product Safety Data Sheet - EXPOSURE SCENARIO RECOMMENDATION ON SAFE USE OF THE MIXTURE

1. Industrial use

Application sector : SU 3		
Chemical product category : PC9a		
Partial processes covered by exposure scenario: PROC1, PROC2, PROC3, PROC4, PROC5, PROC		DDOCOh
	, FRUCoa,	FRUCOD,
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 (see section 8.2. of the SDS). Basic training required.
	 Use respiratory protection if NPK or PEL values are exceeded (see section 8 of the SDS). Abide by general principles of safe and hygienic work with chemical substances. Workplaces must meet the requirements for work with flammable liquids capable of producing explosive mixtures of vapours with air. The workplace must meet the requirements against accidental leaks of the product into water or soil.
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 roller, brush or palette knife.	PROC 10 Roller, palette knife or brush application	Local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour).
Dipping or pouring application of coating composition.	PROC 13 Treatment of articles by dipping and pouring	Local air extraction at potential emission release 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 or brush application (by a tool held in hand)	Local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour).
	PROC8a Transfer of the product (charging / discharging) to/from vessels/large containers at non dedicated facilities	
Laboratory checks on the coating composition	PROC 15 Use as laboratory reagent (laboratory work with the product)	Handling in a fume hood or in the presence of vacuum ventilation.
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 Chemical product category	: SU 22 : PC9a
	scenario: PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, 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 (see section 8.2. of the SDS). Basic training required.		
	 Use respiratory protection if NPK or PEL values are exceeded (see section 8 of the SDS). Abide by general principles of safe and hygienic work with chemical substances. Workplaces must meet the requirements for work with flammable liquids capable of producing explosive mixtures of vapours with air. The workplace must meet the requirements against accidental leaks of the product into water or soil. 		
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	PROC 8a Transfer of the product	Indoor: local air extraction at potential emission
containers and devices at non dedicated	(charging / discharging) to/from	release or good ventilation (3-5 air exchanges
facility with potential human and	vessels/large containers at non	per hour).
environment exposure	dedicated facilities	Outdoor: secure catch dripping paint

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	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
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).	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
temperature (by max. 20°C)	exposure anses	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.
Manual cleaning of small containers, application devices and tools	PROC 10 Roller 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)	Handling in a fume hood or in the presence of vacuum ventilation.
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.