

TELPUR P 180

Creation date 06th August 2020

Revision date Version 1.0

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

1.1. Product identifier TELPUR P 180

Substance / mixture mixture

Other mixture names Two-component polyurethane anticorrosive primer

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

Mixture's intended use Varnish

The use descriptors

PROC 3

PC 9a Coatings and paints, thinners, paint removers

PROC 1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions

PROC 2 Chemical production or refinery in closed continuous process with occasional controlled

exposure or processes with equivalent containment conditions

Manufacture or formulation in the chemical industry in closed batch processes with occasional

controlled exposure or processes with equivalent containment condition

PROC 4 Chemical production where opportunity for exposure arises

PROC 5 Mixing or blending in batch processes

PROC 7 Industrial spraying

PROC 8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
PROC 8b Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC 10 Roller application or brushing PROC 11 Non industrial spraying

PROC 13 Treatment of articles by dipping and pouring

PROC 15 Use as laboratory reagent

PROC 19 Manual activities involving hand contact

IS Use at industrial sites

PW Widespread use by professional workers

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.

1.3. Details of the supplier of the safety data sheet

Manufacturer

Name or trade name

BARVY A LAKY TELURIA,s.r.o.

č.p.1, Skrchov, 679 61

Czech Republic

Identification number (CRN)43420371VAT Reg NoCZ43420371Phone+420 516 474 211E-mailtel@teluria.czWeb addresshttp://www.bal.cz

Competent person responsible for the safety data sheet

Name Ing. Štěpánka Nováková
E-mail stepanka.novakova@bal.cz

1.4. Emergency telephone number

National Health Service (NHS) 111

National poisoning information centre Scotland, NHS 24: 111 112



TELPUR P 180

Creation date 06th August 2020

Revision date Version 1.0

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 Acute Tox. 4, H312+H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 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. Causes serious eye irritation. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure. Harmful in contact with skin or if inhaled. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictogram









Signal word

Warning

Hazardous substances

xylene (mixture of isomers and ethylbenzene)

Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation. 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. H312+H332 Harmful in contact with skin or if inhaled.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P261 Avoid breathing spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

Page 2/19



TELPUR P 180

Creation date 06th August 2020

Revision date Version 1.0

Supplemental information

EUH208 Contains 2-butanone oxime. May produce an allergic reaction.

2.3. Other hazards

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. Vapours have intoxicating and narcotic effect, causing headaches, eye irritation and respiratory tract irritation.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of inorganic pigments and fillers in solution of polyestere 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

working enviror	inient			
Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
EC: 905-562-9 Registration number: 01-2119555267-33	xylene (mixture of isomers and ethylbenzene)	20-25	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Acute Tox. 4, H312+H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Specific concentration limit: Acute Tox. 4, H312+H332: C ≥ 12,5 %	1, 2
Index: 607-025-00-1 CAS: 123-86-4 EC: 204-658-1 Registration number: 01-2119485493-29	n-butyl acetate	<10	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	2
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 Aquatic Chronic 1, H410	
Index: 616-014-00-0 CAS: 96-29-7 EC: 202-496-6 Registration number: 01-2119539477-28	2-butanone oxime	<1	Acute Tox. 4, H312 Skin Sens. 1, H317 Eye Dam. 1, H318 Carc. 2, H351	
CAS: 22464-99-9 EC: 245-018-1 Registration number: 01-2119979088-21	2-ethylhexanoic acid, zirconium salt	<0,14	Repr. 2, H361d	

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 Substance for which exposure limits of Community for working environment exist.

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

Page 3/19



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

TELPUR P 180

Creation date 06th August 2020
Revision date Version 1.0

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/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

Provide medical treatment.

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

If inhaled

Cough, headache. May cause respiratory irritation.

If on skin

Causes skin irritation.

If in eyes

Causes serious eye irritation.

If swallowed

Irritation, nausea.

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.

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

Use a self-contained breathing apparatus and full-body protective clothing. Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. 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.



TELPUR P 180

Creation date 06th August 2020

Revision date Version 1.0

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.

6.4. Reference to other sections

See the Section 7, 8 and 13.



	according to Regulation (Ed	C) No 1907/2006 (REACH) as	s amended	
	TEL	PUR P 180		
Creation date	06th August 2020			
Revision date		Version	1.0	

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.

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.

Storage class

Material of package

3A - Flammable liquids (flash point below 55 °C) FE (40), Steel (Metals)



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 substances xylene, butyl acetate and zink phosphate. 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

Commission Directive 2000/39/EC

Substance name (component)	Туре	Value	Note
n-butyl acetate (CAS: 123-86-4)	OEL 8 hours	241 mg/m ³	

Page 6/19



	according to Regulation (Ed	C) No 1907/2006 (REACH) a	s amended	
	TEL	PUR P 180		
Creation date	06th August 2020			
Revision date		Version	1.0	

European Union

Commission Directive 2000/39/EC

Substance name (component)	Туре	Value	Note
	OEL 8 hours	50 ppm	
n-butyl acetate (CAS: 123-86-4)	OEL 15 minutes	723 mg/m ³	
	OEL 15 minutes	150 ppm	

United Kingdom of Great Britain and Northern Ireland

EH40/2005 Workplace exposure limits (Fourth Edition 2020)

Substance name (component)	Туре	Value	Note
	WEL 8h	220 mg/m³	
Yylana o- m- n- or miyad isomars	WEL 8h	50 ppm	Can be absorbed through the skin. The assigned substances are those for which there are
Xylene, o-,m-,p- or mixed isomers	WEL 15min	441 mg/m ³	concerns that dermal absorption will lead to systemic toxicity.
	WEL 15min	100 ppm	
	WEL 8h	724 mg/m ³	
n-butyl acetate (CAS: 123-86-4)	WEL 8h	150 ppm	
in-butyl acetate (CAS. 123-00-4)	WEL 15min	966 mg/m ³	
	WEL 15min	200 ppm	

Biological limit values

United Kingdom of Great Britain and Northern Ireland

EH40/2005 Workplace exposure limits (Fourth Edition 2020)

Name	Parameter	Value	Tested material	Time of sampling
xylene (mixture of isomers and ethylbenzene)	Methylhippuric acids	650 µmol/mmol creatinine	Urine	End of shift

DNEL

2-butanone oxime

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	9 mg/m ³	Systemic chronic effects	

Page 7/19



TELPUR P 180

Creation date 06th August 2020 Revision date

Version 1.0

2-butanone oxime

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	3.33 mg/m ³	Local chronic effects	
Workers	Dermal	1.3 mg/kg bw/day	Systemic chronic effects	
Workers	Dermal	2.5 mg/kg bw/day	Systemic acute effects	
Consumers	Inhalation	2.7 mg/m ³	Systemic chronic effects	
Consumers	Inhalation	2 mg/m ³	Systemic acute effects	
Consumers	Dermal	0.78 mg/kg bw/day	Systemic chronic effects	
Consumers	Dermal	1.5 mg/kg bw/day	Systemic acute effects	

2-ethylhexanoic acid, zirconium salt

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	32 mg/m ³	Systemic chronic effects	
Workers	Dermal	6.49 mg/kg bw/day	Systemic chronic effects	
Consumers	Inhalation	8 mg/m ³	Systemic chronic effects	
Consumers	Dermal	3.25 mg/kg bw/day	Systemic chronic effects	
Consumers	Oral	2.5 mg/kg bw/day	Systemic chronic effects	

n-butyl acetate

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	48 mg/m ³	Systemic chronic effects	
Workers	Inhalation	600 mg/m ³	Systemic acute effects	
Workers	Inhalation	300 mg/m ³	Local chronic effects	
Workers	Inhalation	600 mg/m ³	Local acute effects	
Workers	Dermal	7 mg/kg bw/day	Systemic chronic effects	
Workers	Dermal	11 mg/kg bw/day	Systemic acute effects	
Consumers	Inhalation	12 mg/m ³	Systemic chronic effects	
Consumers	Inhalation	300 mg/m ³	Systemic acute effects	
Consumers	Inhalation	35.7 mg/m ³	Local chronic effects	
Consumers	Inhalation	300 mg/m ³	Local acute effects	
Consumers	Dermal	3.4 mg/kg bw/day	Systemic chronic effects	
Consumers	Dermal	6 mg/kg bw/day	Systemic acute effects	
Consumers	Oral	2 mg/kg bw/day	Systemic chronic effects	_



TELPUR P 180

Creation date 06th August 2020

Revision date Version 1.0

trizinc bis(orthophosphate)

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	5 mg/kg	Systemic chronic effects	
Workers	Dermal	83 mg/kg	Systemic chronic effects	
Consumers	Inhalation	2.5 mg/kg	Systemic chronic effects	
Consumers	Dermal	83 mg/kg	Systemic chronic effects	
Consumers	Oral	0.83 mg/kg	Systemic chronic effects	

xylene (mixture of isomers and ethylbenzene)

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	77 mg/m³	Systemic chronic effects	
Workers	Inhalation	289 mg/m ³	Systemic acute effects	
Workers	Inhalation	289 mg/m ³	Local acute effects	
Workers	Dermal	180 mg/kg bw/day	Systemic chronic effects	
Consumers	Inhalation	14.8 mg/m ³	Systemic chronic effects	
Consumers	Inhalation	174 mg/m ³	Systemic acute effects	
Consumers	Inhalation	174 mg/m ³	Local acute effects	
Consumers	Dermal	108 mg/kg bw/day	Systemic chronic effects	
Consumers	Oral	1.6 mg/kg bw/day	Systemic chronic effects	

PNEC

2-butanone oxime

Route of exposure	Value	Determining method
Freshwater environment	0.256 mg/l	
Water (intermittent release)	0.118 mg/l	
Microorganisms in wastewater treatment plants	177 mg/l	

2-ethylhexanoic acid, zirconium salt

Route of exposure	Value	Determining method
Freshwater environment	360 µg/l	
Seawater	36 μg/l	
Microorganisms in wastewater treatment plants	71.7 mg/l	
Freshwater sediment	6.37 mg/kg of dry substance of sediment	
Sea sediments	0.637 mg/kg of dry substance of sediment	
Soil (agricultural)	1.06 mg/kg of dry substance of soil	

n-butyl acetate

Route of exposure	Value	Determining method
Freshwater environment	0.18 mg/l	
Seawater	0.018 mg/l	

Page 9/19



TELPUR P 180

Creation date 06th August 2020

Revision date Version 1.0

n-butyl acetate

Route of exposure	Value	Determining method
Water (intermittent release)	0.36 mg/l	
Microorganisms in wastewater treatment plants	35.6 mg/l	
Freshwater sediment	0.981 mg/kg of dry substance of sediment	
Sea sediments	0.0981 mg/kg of dry substance of sediment	
Soil (agricultural)	0.0903 mg/kg of dry substance of soil	

trizinc bis(orthophosphate)

Route of exposure	Value	Determining method
Freshwater environment	0.0206 mg/l	
Seawater	0.0061 mg/l	
Microorganisms in wastewater treatment plants	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	

xylene (mixture of isomers and ethylbenzene)

Route of exposure	Value	Determining method
Drinking water	0.327 mg/l	
Seawater	0.327 mg/l	
Water (intermittent release)	0.327 mg/l	
Microorganisms in wastewater treatment plants	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	



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Creation date 06th August 2020

Revision date Version 1.0

8.2. Exposure controls

Conditions of safe use of the registered coating 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 coating composition.

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.

Eve/face protection

Protective goggles (closed eye protection) resistant to organic solvent or face shield.

Skin protection

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

Hand protection: Chemical resistant protective gloves (EN 374-1:2003). Suitable material – PVA (0.7 mm), chloroprene rubber (0.5 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.

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

Appearance

Physical state liquid at 20°C

color according to the shade

Odour typical aromatic
Odour threshold data not available

pH data not available
Melting point/freezing point data not available

Initial boiling point and boiling range

Flash point

Evaporation rate

data not available

>24 °C (EN ISO 2719)

data not available

Flammability (solid, gas) Flammable liquid and vapour.

Upper/lower flammability or explosive limits

flammability limits data not available explosive limits data not available Vapour pressure data not available Vapour density data not available

Relative density data not available Solubility(ies)

solubility in water data not available solubility in fats data not available

Page 11/19



	according to Regulation (EC) No 1907/2006 (REACH) as amended						
	TELPUR P 180						
Creatio	on date 06th August 2020						
Revisio	on date	Version 1.0					
	Partition coefficient: n-octanol/water	data not available					
	Auto-ignition temperature	data not available					
	Decomposition temperature	data not available					
	Viscosity	data not available					
	Kinematic viscosity	>20.5 mm ² /s at 40°C					
	Explosive properties	data not available					
	Oxidising properties	data not available					
9.2.	Other information						
	Density	1.42 hardened mixt. g/cm³ at 23°C (EN ISO 2811-1)					
	ignition temperature	data not available					
	content of organic solvents (VOC)	0.33 kg/kg hardened mixture					

SECTION 10: Stability and reactivity

total organic carbon (TOC)

solid content (dry matter)

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.

0.29 kg/kg hardened mixture

45 mixt. % volume

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

Acute toxicity

Harmful in contact with skin or if inhaled.

2-butanone oxime

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD50	900 mg/kg bw		Rat (Rattus norvegicus)	
Inhalation (vapor)	LC50	>4.83 mg/l of air	4 hour	Rat (Rattus norvegicus)	
Dermal	LD50	1000 mg/kg bw		Rat (Rattus norvegicus)	



TELPUR P 180

Creation date 06th August 2020

Revision date Version 1.0

2-ethylhexanoic acid, zirconium salt

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD ₅₀	>5000 mg/kg bw		Rat	F
Dermal	LD50	>5000 mg/kg bw		Rat	F/M

n-butyl acetate

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD50	10760 mg/kg		Rat (Rattus norvegicus)	
Inhalation (gases)	LC50	2000 ppm	4 hour	Rat (Rattus norvegicus)	
Dermal	LD50	1400 mg/kg		Rabbit	

trizinc bis(orthophosphate)

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD ₅₀	5000 mg/kg		Rat (Rattus	
				norvegicus)	

xylene (mixture of isomers and ethylbenzene)

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD ₅₀	3523 mg/kg bw		Rat (Rattus norvegicus)	М
Inhalation	LC50	6350-6700 ppm	4 hour	Rat (Rattus norvegicus)	
Dermal	LD ₅₀	>5000 mg/kg		Rabbit	
Oral	LD ₅₀	>4000 mg/kg bw		Rat (Rattus norvegicus)	F
	ATE	1100 mg/kg		Rabbit	

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Based on available data the classification criteria are not met. The mixture contains sub-threshold amount 2-butanone oxime, that sensitizes the skin. May produce an allergic 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. The mixture contains sub-threshold amount (< 1%) 2-butanone oxime, which is classified as category 2 carcinogen substance.

Page

13/19



	according to Regulation (E	C) No 1907/2006 (REACH) a	s amended				
	TELPUR P 180						
Creation date	06th August 2020						
Revision date		Version	1.0				

Reproductive toxicity

Based on available data the classification criteria are not met. The mixture contains sub-threshold amount 2-ethylhexanoic acid, zirconium salt, that is classified as reproductive toxicant, category 2. The other substances have no reproductive potential.

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.

Aspiration hazard

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. Based on available data the classification criteria are not met.

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.

2-butanone oxime

Parameter	Value	Time of exposure	Species	Environment
LC50	>100 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
EC50	201 mg/l	48 hour	Aquatic invertebrates	
EC50	11.8 mg/l	72 hour	Algae and other aquatic plants	
EC50	281 mg/l	17 hour	Microorganisms (Photobacterium phosphoreum)	

2-ethylhexanoic acid, zirconium salt

Parameter	Value	Time of exposure	Species	Environment
LC50	>100 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	

n-butyl acetate

Parameter	Value	Time of exposure	Species	Environment
LC50	18 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
EC50	44 mg/l	48 hour	Daphnia (Daphnia magna)	
EC50	200 mg/l	72 hour	Algae (Selenastrum capricornutum)	

Page 14/19



	according to Regulation (EC	C) No 1907/2006 (REACH) a	s amended				
	TELPUR P 180						
Creation date	06th August 2020						
Revision date		Version	1.0				

trizinc bis(orthophosphate)

Parameter	Value	Time of exposure	Species	Environment
LC50	0.3-5.59 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
LC50	0.89-0.96 mg/l	48 hour	Crustaceans	
EC50	0.29-0.32 mg/l	72 hour	Algae and other aquatic plants	

xylene (mixture of isomers and ethylbenzene)

Parameter	Value	Time of exposure	Species	Environment
LC50	2.6 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
IC50	1 mg/l	24 hour	Daphnia (Daphnia magna)	
EC50	4.36 mg/l	73 hour	Algae (Pseudokirchneriella subcapitata)	

Chronic toxicity

xylene (mixture of isomers and ethylbenzene)

Parameter	Value	Time of exposure	Species	Environment
NOEC	>1.3 mg/l	56 day	Fishes (Oncorhynchus mykiss)	
NOEC	0.96-1.17 mg/l	7 day	Invertebrates (Ceriodaphnia dubia)	

12.2. Persistence and degradability

Data for mixture not available.

12.3. Bioaccumulative potential

2-butanone oxime

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]
Log Pow	0.63				

xylene (mixture of isomers and ethylbenzene)

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]
BCF	6-23				
Log Pow	3.15-3.2				

Data for mixture not available.

12.4. Mobility in soil

Page 15/19



	according to Regulation (Ed	C) No 1907/2006 (REACH) as	s amended	
	TEL	PUR P 180		
Creation date	06th August 2020			
Revision date		Version	1.0	

xylene (mixture of isomers and ethylbenzene)

Parameter	Value	Environment	Surrounding temperature
Koc	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. Other adverse effects

Volatile organic substances contained in the mixture have the potential to damage ozone layer.

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

UN 1263

14.2. UN proper shipping name

PATNT

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.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not classified.

Page 16/19



TELPUR P 180

Creation date 06th August 2020

Revision date Version 1.0

Additional information

Hazard identification No. 30 UN number 1263

Classification code F1

Safety signs 3+hazardous for the environment





Air transport - ICAO/IATA

355 Packaging instructions passenger Cargo packaging instructions 366

Marine transport - IMDG

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

SECTION 15: Regulatory information

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

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 as amended. Environmental Protection Act 1990 as amended. Clean Air Act 1993 as amended. 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 of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

15.2. **Chemical safety assessment**

Chemical safety assessment was carried out on substances xylenes, butyl-acetate and trizinc bis(orthophosphate). The respective exposure scenarios are incorporated in Annex of this Safety Data Sheet.

SECTION 16: Other information

H226

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

Flammable liquid and vapour.

H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
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.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

17/19 Page



TELPUR P 180

Creation date 06th August 2020

Revision date Version 1.0

H411 Toxic to aquatic life with long lasting effects. H312+H332 Harmful in contact with skin or if inhaled.

Guidelines for safe handling used in the safety data sheet

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P280 Wear protective gloves/protective clothing/eye protection.

P261 Avoid breathing spray.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P273 Avoid release to the environment.

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

EUH208 Contains 2-butanone oxime. May produce an allergic reaction. EUH066 Repeated exposure may cause skin dryness or cracking.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

ADR European agreement concerning the international carriage of dangerous goods by road

BCF Bioconcentration Factor
CAS Chemical Abstracts Service

CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and

mixtures

DNEL Derived no-effect level

EC Identification code for each substance listed in EINECS

EC50 Concentration of a substance when it is affected 50% of the population EINECS European Inventory of Existing Commercial Chemical Substances

EmS Emergency plan EU European Union

IATA International Air Transport Association

IBC International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals

IC50 Concentration causing 50% blockadeICAO International Civil Aviation OrganizationIMDG International Maritime Dangerous Goods

INCI International Nomenclature of Cosmetic Ingredients
ISO International Organization for Standardization
IUPAC International Union of Pure and Applied Chemistry

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

LD50 Lethal dose of a substance in which it can be expected death of 50% of the population

LOAEC Lowest observed adverse effect concentration

LOAEL Lowest observed adverse effect level log Kow Octanol-water partition coefficient

MARPOL International Convention for the Prevention of Pollution From Ships

NOAEC No observed adverse effect concentration

NOAEL No observed adverse effect level NOEC No observed effect concentration

NOEL No observed effect level
OEL Occupational Exposure Limits

Page 18/19



TELPUR P 180

Creation date 06th August 2020
Revision date Version 1.0

PBT Persistent, Bioaccumulative and Toxic
PNEC Predicted no-effect concentration

ppm Parts per million

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

RID Agreement on the transport of dangerous goods by rail

UN Four-figure identification number of the substance or article taken from the UN Model

Regulations

UVCB Substances of unknown or variable composition, complex reaction products or biological

materials

VOC Volatile organic compounds

vPvB Very Persistent and very Bioaccumulative

Acute Tox. Acute toxicity

Aquatic Acute Hazardous to the aquatic environment

Aquatic Chronic Hazardous to the aquatic environment (chronic)

Asp. Tox. Aspiration hazard Carc. Carcinogenicity Eye Dam. Serious eye damage Eye Irrit. Eye irritation Flam. Liq. Flammable liquid Repr. Reproductive toxicity Skin Irrit. Skin irritation Skin Sens. Skin sensitization

STOT RE Specific target organ toxicity - repeated exposure STOT SE Specific target organ toxicity - single exposure

Training guidelines

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

Recommended restrictions of use

The product is exclusively intended for use in installations authorised according to Directive 1999/13/EC where emission limiting measures provide alternative means of achieving at least equivalent VOC emission reductions.

Information about data sources used to compile the Safety Data Sheet

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

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.

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

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. Dipping or pouring application of coating composition.	brush application PROC 13 Treatment of articles by dipping and pouring	or good ventilation (3-5 air exchanges per hour). 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, palette knife 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)	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

: SU 22 Application sector Chemical product category : PC9a

Partial processes covered by exposure 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.