

		TELHARD PUR HS	
Creati	on date 23rd January		
Revisi	on date 10th June 20	22 Version	3.0
SECT	ON 1: Identification of the substan	nce/mixture and of the company/und	lertaking
1.1.	Product identifier	TELHARD PUR HS	2
	Substance / mixture	mixture	
	UFI	R50W-V02N-Q004	-SWWA
	Other mixture names		
	HARDENER FOR POLYURETHAN	NE PAINTS TELPUR	
1.2.	Relevant identified uses of the su	ubstance or mixture and uses advised	l against
Mixture's intended use			
	Main intended use		
	PC-PNT-OTH Othe	er paints and coating materials	
	Mixture uses advised against		
		ays other then those referred in Section	1.
	Exposure scenario is attached to the		
1.3.	Details of the supplier of the safe	ety data sheet	
	Manufacturer		
	Name or trade name	BARVY A LAKY TEI	
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		Czech Republic	
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	Competent person responsible fo	-	
	Name	BARVY A LAKY TEI	_URIA,s.r.o.
	E-mail	tel@teluria.cz	
1.4.	<b>Emergency telephone number</b> European emergency number: 112		

#### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Flam. Liq. 3, H226 Skin Sens. 1, H317 Acute Tox. 4, H332 STOT SE 3, H335 Aquatic Chronic 3, H412

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

May cause an allergic skin reaction. Harmful if inhaled. May cause respiratory irritation. Harmful to aquatic life with long lasting effects.

#### Page 1/18



		TELH	ARD PUR HS			
	on date	23rd January 2017				
Revisio	on date	10th June 2022	Version	3.0		
2.2.	Label elements Hazard pictogram	<b>^</b>				
	Signal word					
	Warning					
	Hazardous substa	nces				
	hexamethylene diiso hexamethylene-di-is Hazard statement	ocyanate				
	H226	Flammable liquid	and vapour.			
	H317	May cause an allergic skin reaction.				
	H332	Harmful if inhaled	-			
	H335	May cause respire	atory irritation.			
	H412		c life with long lasting effe	cts.		
	Precautionary stat		5 5			
	P210		neat, hot surfaces, sparks,	open flames and other ignition source		
	P260	Do not breathe va	apours.			
	P280	Wear protective of	loves/protective clothing/e	eye protection.		
	P302+P352	IF ON SKIN: Was	h with plenty of water and	soap.		
	P304+P340	IF INHALED: Rem	nove person to fresh air an	d keep comfortable for breathing.		
	P312	Call a POISON CE	NTER/doctor if you feel un	well.		
	Supplemental info	rmation				
		As from 24 Augus professional use.	st 2023 adequate training i	s required before industrial or		
	Density		1,13 g/cm <sup>3</sup> at 23	3 °C (EN ISO 2811-1)		
	VOC		0,10 kg/kg			
	TOC		0,07 kg/kg			

#### 2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. Substances are neither listed in Annex XIV of REACH nor on the REACH candidate list of substances of very high concern (SVHC).

Page 2/18



according to Regulation (EC) No 1907/2006 (REACH) as amended						
	TELHARD PUR HS					
Creation date	Creation date 23rd January 2017					
Revision date						

#### **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

Chemical characterization

Mixture of substances and additives specified below.

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

Identification numbers	ntification numbers Substance name		Classification according to Regulation (EC) No 1272/2008	Note
CAS: 28182-81-2 EC: 500-060-2 Registration number: 01-2119485796-17	hexamethylene diisocyanate, oligomers	90	Skin Sens. 1, H317 Acute Tox. 4, H332 STOT SE 3, H335	
Index: 607-025-00-1 CAS: 123-86-4 EC: 204-658-1 Registration number: 01-2119485493-29	n-butyl acetate	5	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	3
Index: 649-356-00-4 EC: 918-668-5 Registration number: 01-2119455851-35	hydrocarbons, C9, aromatics	5	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H335, H336 Aquatic Chronic 2, H411 EUH066	1, 5
Index: 615-011-00-1 CAS: 822-06-0 EC: 212-485-8 Registration number: 01-2119457571-37	hexamethylene-di-isocyanate	0,1-0,15	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Acute Tox. 3, H331 Resp. Sens. 1, H334 STOT SE 3, H335 Specific concentration limit: Resp. Sens. 1, H334: $C \ge 0,5 \%$ Skin Sens. 1, H317: $C \ge 0,5 \%$	2, 4

Notes

1 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.

2 Note 2: The concentration of isocyanate stated is the percentage by weight of the free monomer calculated with reference to the total weight of the mixture.

3 Substance with a Union workplace exposure limit.

4 The use of the substance is restricted by Annex XVII of REACH Regulation

5 Fulfilled Note P

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



according to Regulation (EC) No 1907/2006 (REACH) as amended TELHARD PUR HS						
						Creation date
Revision date						

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#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

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

#### If inhaled

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

#### If on skin

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

#### If in eyes

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

#### If swallowed

Do not provide anything to eat or drink. Provide medical treatment.

#### Most important symptoms and effects, both acute and delayed

#### If inhaled

4.2.

Cough, headache. May cause respiratory irritation.

If on skin

May cause an allergic skin reaction.

If in eyes

Not expected.

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

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.

Page 4/18



according to Regulation (EC) No 1907/2006 (REACH) as amended TELHARD PUR HS						
						Creation date 23rd January 2017
Revision date	evision date 10th June 2022 Version 3.0					

#### **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. 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.



according to Regulation (EC) No 1907/2006 (REACH) as amended TELHARD PUR HS							
							Creation date 23rd January 2017
Revision date							

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

7.1.1. General health measures

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

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

#### 7.1.2. Fire precautions

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

#### 7.1.3. Environmental precautions

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

#### 7.2. Conditions for safe storage, including any incompatibilities

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

Storage class

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

#### Storage temperature

min 5 °C, max 25 °C

#### The specific requirements or rules relating to the substance/mixture

Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air.

#### 7.3. Specific end use(s)

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

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

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

European Union	Commission D	irective 2000/39/EC
Substance name (component)	Туре	Value
n-butyl acetate (CAS: 123-86-4)	OEL 8 hours	241 mg/m <sup>3</sup>

#### Page 6/18

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according to Regulation (EC) No 1907/2006 (REACH) as amended TELHARD PUR HS						
						Creation date
Revision date 10th June 2022 Version 3.0						

#### **European Union**

European Union	Commission Directive 2000/39/EC		
Substance name (component)	Туре	Value	
	OEL 8 hours	50 ppm	
n-butyl acetate (CAS: 123-86-4)	OEL 15 minutes	723 mg/m <sup>3</sup>	
	OEL 15 minutes	150 ppm	

#### DNEL

hexamethylene-di-isocyanate

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	0.035 mg/m <sup>3</sup>	Local chronic effects		
Workers	Inhalation	0.07 mg/m <sup>3</sup>	Local acute effects		
hydrocarbons, (	C9, aromatics				
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	150 mg/kg	Systemic chronic effects		
Workers	Dermal	25 mg/kg	Systemic chronic effects		
Consumers	Inhalation	32 mg/kg	Systemic chronic effects		
Consumers	Dermal	11 mg/kg	Systemic chronic effects		
Consumers	Oral	11 mg/kg	Systemic chronic effects		
n-butyl acetate	-				
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	48 mg/m <sup>3</sup>	Systemic chronic effects		
Workers	Inhalation	600 mg/m <sup>3</sup>	Systemic acute effects		
Workers	Inhalation	300 mg/m <sup>3</sup>	Local chronic effects		
Workers	Inhalation	600 mg/m <sup>3</sup>	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 <sup>3</sup>	Systemic chronic effects		
Consumers	Inhalation	300 mg/m <sup>3</sup>	Systemic acute effects		
Consumers	Inhalation	35.7 mg/m <sup>3</sup>	Local chronic effects		
Consumers	Inhalation	300 mg/m <sup>3</sup>	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		

#### Page 7/18



# according to Regulation (EC) No 1907/2006 (REACH) as amended TELHARD PUR HS Creation date 23rd January 2017 Revision date 10th June 2022 Version 3.0

#### PNEC

n-butyl acetate

Route of exposure	Value	Value determination	Source
Freshwater environment	0.18 mg/l		
Seawater	0.018 mg/l		
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		

#### 8.2. Exposure controls

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

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

#### Eye/face protection

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

#### Skin protection

Skin protection: Protective clothes with antistatic finish, protective shoes; treat unprotected skin with barrier cream. Hand protection: Chemical resistant protective gloves (EN 374-1:2003). Suitable material – nitrile rubber (0.4 mm), butyl rubber(0.7 mm) and others, time of penetration corresponding to > 480 minutes. The time of penetration specified by the manufacturer should be followed and the glove replaced after expiration. If damaged, the gloves should be replaced immediately.

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

#### **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.

#### Page 8/18



TELHARD PUR HS					
Creation date	23rd January 2017				
Revision date	10th June 2022	Version	3.0		

#### Information on basic physical and chemical properties Physical state liquid Colour colourless Odour typical aromatic Melting point/freezing point data not available Boiling point or initial boiling point and boiling range 160 °C (EN ISO 13 736) Flammability Flammable liquid and vapour. Lower and upper explosion limit bottom 1 % upper 7,5 % Flash point 50 °C (EN ISO 2719) Auto-ignition temperature data not available Decomposition temperature data not available reacts with water pН Kinematic viscosity >20.5 mm<sup>2</sup>/s at 40 °C Solubility in water data not available Partition coefficient n-octanol/water (log value) data not available Vapour pressure data not available Density and/or relative density Density 1,13 g/cm3 at 23 °C (EN ISO 2811-1) 9.2. **Other information** >430 °C (EN 14 522) Ignition temperature Content of organic solvents (VOC) 0,10 kg/kg Total organic carbon (TOC) 0,07 kg/kg

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

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

#### 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

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.

#### Page 9/18



	according to Regulation (EC)	) No 1907/2006 (REACH) a	as amended		
TELHARD PUR HS					
Creation date	23rd January 2017				
Revision date	10th June 2022	Version	3.0		

#### **SECTION 11: Toxicological information**

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

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

#### Acute toxicity

Harmful if inhaled.

hexamethylene diisocyanate, oligomers

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD50	>5000 mg/kg		Rat (Rattus norvegicus)	
Inhalation	LC50	0.554 mg/l	4 hour	Rat (Rattus norvegicus)	
Dermal	LD 50	>2000 mg/kg		Rabbit	
Dermal hexamethylene-di-iso		>2000 mg/kg		Rabbit	

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD50	746 mg/kg		Rat (Rattus norvegicus)	
Inhalation	LC50	124 mg/m <sup>3</sup>	4 hour	Rat (Rattus norvegicus)	
Dermal	LD 50	>7000 mg/kg		Rabbit	

hydrocarbons, C9, ar	romatics				
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD50	3492 mg/kg		Rat (Rattus norvegicus)	
Dermal	LD 50	3160 mg/kg		Rabbit	
Inhalation	LC50	6193 mg/m <sup>3</sup>	4 hour	Rat (Rattus norvegicus)	

n-butyl acetate

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD50	10760 mg/kg		Rat (Rattus norvegicus)	
Inhalation (gases)	LC50	2000 ppm	4 hour	Rat (Rattus norvegicus)	
Dermal	LD 50	1400 mg/kg		Rabbit	

Skin corrosion/irritation

Based on available data the classification criteria are not met.

#### Serious eye damage/irritation

Based on available data the classification criteria are not met.

#### Respiratory or skin sensitisation

May cause an allergic skin reaction.

#### Germ cell mutagenicity

Based on available data the classification criteria are not met.



TELHARD PUR HS					
Creation date	23rd January 2017				
Revision date	10th June 2022	Version	3.0		
-	pecific target organ - single ex	posure			
May cause res	piratory irritation.				
Toxicity for s	pecific target organ - repeated	exposure			
Based on avail	able data the classification criteria	are not met.			
Aspiration ha	zard				
Aspiration na	2010				

#### 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

Harmful to aquatic life with long lasting effects.

hexamethylene diisocyanate, oligomers

Parameter	Method	Value	Exposure time	Species	Environmen t
LC50		>100 mg/l	96 hour	Fishes (Dani rerio)	
EC₅o		>100 mg/l	48 hour	Daphnia (Daphnia magna)	
ErC₅₀		>100 mg/l	72 hour	Algae (Scenedesmus subspicatus)	
EC50	OECD 209	>100 mg/l	3 hour	Bacteria	Activated sludge
hexamethylen	e-di-isocyanate	-			
Parameter	Method	Value	Exposure time	Species	Environmen t
LC50		>83 mg/l	96 hour	Fishes (Danio rerio)	
EC50		>89 mg/l	48 hour	Daphnia (Daphnia magna)	
EC50		>77 mg/l	72 hour	Algae (Scenedesmus subspicatus)	
hydrocarbons,	C9, aromatics	-			
Parameter	Method	Value	Exposure time	Species	Environmen t
LC50		9.2 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
EC₅o		3.2 mg/l	48 hour	Daphnia (Daphnia magna)	
EC50		2.9 mg/l	72 hour	Algae (Selenastrum capricornutum)	

Page 11/18



according to Regulation (EC) No 1907/2006 (REACH) as amended						
TELHARD PUR HS						
23rd January 2017						
reation date 23rd January 2017 evision date 10th June 2022 Version 3.0						
	TELHA 23rd January 2017	TELHARD PUR HS 23rd January 2017	TELHARD PUR HS 23rd January 2017			

n-butyl acetate

Parameter	Method	Value	Exposure time	Species	Environmen t
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)	

#### 12.2. Persistence and degradability

#### Biodegradability

hexamethylene diisocyanate, oligomers

1 % 28 day Hardly biodegrad	able

#### Data for mixture not available. 12.3. Bioaccumulative potential

Data for mixture not available.

## 12.4. Mobility in soil

Not available

#### 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

The isocyanate reacts with water at the interface to evolve CO2 and form a solid insoluble solid with a high melting point (polyurea). This reaction is strongly promoted by surfactants (eg liquid soaps) or water-soluble solvents. According to the experience presented so far, polyurea is inert and non-degradable.

#### **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

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

#### Page 12/18



		TELHARD PUR HS	
	on date 23rd January	2017	
Revisio	on date 10th June 20	22 Version	3.0
	Packaging waste type code		
		residues of or contaminated by haza	
	(*) - Hazardous waste according to	Directive 2008/98/EC on hazardous v	vaste
SECTI	ON 14: Transport information		
	UN number or ID number		
	UN 1866		
14.2.	UN proper shipping name		
	RESIN SOLUTION		
14.3.	Transport hazard class(es)		
144	3 Flammable liquids Packing group		
·	III - substances presenting low dang	er	
14.5.		-	
	not relevant		
14.6.	• •		
			nd covered means of transport, protected
14.7.	against the weather, shocks and falls Maritime transport in bulk accord		
· · · / ·	not relevant		
	Additional information		
	Hazard identification No.	30	
	UN number	1866	
	Classification code	F1	
	Safety signs	3	
		3	
		V	
	Marine transport - IMDG EmS (emergency plan)	F-E, S-E	
		F-F 5-F	

#### **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 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.

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



	according to Regulation (EC	according to Regulation (EC) No 1907/2006 (REACH) as amended			
TELHARD PUR HS					
Creation date	23rd January 2017				
Revision date	10th June 2022	Version	3.0		

#### hexamethylene-di-isocyanate

Restriction	Conditions of restriction
74	1. Shall not be used as substances on their own, as a constituent in other substances or in mixtures
	for industrial and professional use(s) after 24 August 2023, unless:
	(a) the concentration of diisocyanates individually and in combination is less than 0,1 % by weight,
	(b) the employer or self-employed ensures that industrial or professional user(s) have successfully
	completed training on the safe use of diisocyanates prior to the use of the substance(s) or mixture
	<ul><li>(s).</li><li>2. Shall not be placed on the market as substances on their own, as a constituent in other</li></ul>
	substances or in mixtures for industrial and professional use(s) after 24 February 2022, unless:
	(a) the concentration of diisocyanates individually and in combination is less than 0,1 % by weight,
	or
	(b) the supplier ensures that the recipient of the substance(s) or mixture(s) is provided with
	information on the requirements referred to in point (b) of paragraph 1 and the following statement
	is placed on the packaging, in a manner that is visibly distinct from the rest of the label information:
	"As from 24 August 2023 adequate training is required before industrial or professional use".
	3. For the purpose of this entry "industrial and professional user(s)" means any worker or self-
	employed worker handling diisocyanates on their own, as a constituent in other substances or in
	mixtures for industrial and professional use(s) or supervising these tasks.
	4. The training referred to in point (b) of paragraph 1 shall include the instructions for the control of dermal and inhalation exposure to diisocyanates at the workplace without prejudice to any national
	occupational exposure limit value or other appropriate risk management measures at national level.
	Such training shall be conducted by an expert on occupational safety and health with competence
	acquired by relevant vocational training. That training shall cover as a minimum:
	(a) the training elements in point (a) of paragraph 5 for all industrial and professional use(s).
	(b) the training elements in points (a) and (b) of paragraph 5 for the following uses:
	<ul> <li>handling open mixtures at ambient temperature (including foam tunnels);</li> </ul>
	<ul> <li>— spraying in a ventilated booth;</li> </ul>
	- application by roller;
	<ul> <li>application by brush;</li> <li>application by displace and pouring;</li> </ul>
	<ul> <li>application by dipping and pouring;</li> <li>mechanical post treatment (e.g. cutting) of not fully cured articles which are not warm anymore;</li> </ul>
	- cleaning and waste;
	- any other uses with similar exposure through the dermal and/or inhalation route;
	(c) the training elements in points (a), (b) and (c) of paragraph 5 for the following uses:
	- handling incompletely cured articles (e.g. freshly cured, still warm);
	- foundry applications;
	<ul> <li>maintenance and repair that needs access to equipment;</li> </ul>
	<ul> <li>open handling of warm or hot formulations (&gt; 45 °C);</li> <li>approximation of the structure structure inductive variables (includes large inductive variables halls).</li> </ul>
	- spraying in open air, with limited or only natural ventilation (includes large industry working halls)
	and spraying with high energy (e.g. foams, elastomers); — and any other uses with similar exposure through the dermal and/or inhalation route.
	5. Training elements:
	(a) general training, including on-line training, on:
	- chemistry of diisocyanates;
	<ul> <li>toxicity hazards (including acute toxicity);</li> </ul>
	<ul> <li>exposure to diisocyanates;</li> </ul>
	<ul> <li>occupational exposure limit values;</li> </ul>
	<ul> <li>how sensitisation can develop;</li> </ul>
	<ul> <li>odour as indication of hazard;</li> </ul>
	<ul> <li>importance of volatility for risk;</li> <li>viscosity, temperature, and melocular weight of discovanates;</li> </ul>
	<ul> <li>viscosity, temperature, and molecular weight of diisocyanates;</li> <li>personal bygione;</li> </ul>
I	– personal hygiene;

Page 14/18



	according to Regulation (EC) No 1907/2006 (REACH) as amended			
TELHARD PUR HS				
Creation date	23rd January 2017			
Revision date	10th June 2022	Version	3.0	

#### hexamethylene-di-isocyanate

Restriction	Conditions of restriction
	- personal protective equipment needed, including practical instructions for its correct use and its
	limitations;
	<ul> <li>risk of dermal contact and inhalation exposure;</li> </ul>
	<ul> <li>risk in relation to application process used;</li> </ul>
	<ul> <li>– skin and inhalation protection scheme;</li> </ul>
	- ventilation;
	<ul> <li>cleaning, leakages, maintenance;</li> </ul>
	<ul> <li>discarding empty packaging;</li> </ul>
	<ul> <li>protection of bystanders;</li> <li>identification of critical bandling stages;</li> </ul>
	<ul> <li>identification of critical handling stages;</li> <li>creation patients and systems (if applicable);</li> </ul>
	<ul> <li>specific national code systems (if applicable);</li> <li>behaviour-based safety;</li> </ul>
	<ul> <li>– certification or documented proof that training has been successfully completed</li> </ul>
	(b) intermediate level training, including on-line training, on:
	- additional behaviour-based aspects;
	- maintenance;
	- management of change;
	- evaluation of existing safety instructions;
	<ul> <li>risk in relation to application process used;</li> </ul>
	- certification or documented proof that training has been successfully completed
	(c) advanced training, including on-line training, on:
	– any additional certification needed for the specific uses covered;
	- spraying outside a spraying booth;
	- open handling of hot or warm formulations (> 45 °C);
	- certification or documented proof that training has been successfully completed
	6. The training shall comply with the provisions set by the Member State in which the industrial or
	professional user(s) operate. Member States may implement or continue to apply their own national
	requirements for the use of the substance(s) or mixture(s), as long as the minimum requirements
	set out in paragraphs 4 and 5 are met.
	7. The supplier referred to in point (b) of paragraph 2 shall ensure that the recipient is provided with
	training material and courses pursuant to paragraphs 4 and 5 in the official language(s) of the
	Member State(s) where the substance(s) or mixture(s) are supplied. The training shall take into
	consideration the specificity of the products supplied, including composition, packaging, and design.
	8. The employer or self-employed shall document the successful completion of the training referred
	to in paragraphs 4 and 5. The training shall be renewed at least every five years.
	9. Member States shall include in their reports pursuant to Article 117(1) the following information:
	(a) any established training requirements and other risk management measures related to the
	industrial and professional uses of diisocyanates foreseen in national law; (b)the number of cases of reported and recognised occupational asthma and occupational respirator
	and dermal diseases in relation to diisocyanates;
	(c) national exposure limits for diisocyanates, if there are any;
	(d) information about enforcement activities related to this restriction.
	10. This restriction shall apply without prejudice to other Union legislation on the protection of safety
	and health of workers at the workplace.

#### 15.2. Chemical safety assessment

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

#### **SECTION 16: Other information**

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

H226	Flammable liquid and vapour.

Page 15/18

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eation date evision date	23rd January 2017	ARD PUR HS	
11204	10th June 2022	Version	3.0
H304	May be fatal if sv	vallowed and enters airwa	ys.
H315	Causes skin irrita		
H317	May cause an all	ergic skin reaction.	
H319	Causes serious e	ye irritation.	
H331	Toxic if inhaled.		
H332	Harmful if inhale	d.	
H334	May cause allerg	y or asthma symptoms or	breathing difficulties if inhaled.
H335	May cause respir		-
H336		iness or dizziness.	
H411	-	ife with long lasting effect	S.
H412		ic life with long lasting eff	
Guidelines for sa	afe handling used in the safe		
P210			, open flames and other ignition sources
P280	Wear protective	gloves/protective clothing,	eye protection.
P260	Do not breathe v	apours.	
P302+P352	IF ON SKIN: Was	h with plenty of water and	d soap.
P304+P340	IF INHALED: Ren	nove person to fresh air a	nd keep comfortable for breathing.
P312	Call a POISON CE	ENTER/doctor if you feel u	nwell.
A list of addition	al standard phrases used in		
EUH066	-	re may cause skin drynes	s or cracking.
Other important	information about human h		5
The product must		proved by the manufactur	er/importer - used for purposes other the alth protection regulations.
Key to abbreviat	tions and acronyms used in t	the safety data sheet	
ADR	European agreen road	nent concerning the intern	ational carriage of dangerous goods by
BCF	Bioconcentration	Factor	
CAS	Chemical Abstrac	ts Service	
CLP	Regulation (EC) I substance and m		ation, labelling and packaging of
DNEL	Derived no-effect	level	
EC50	Concentration of	a substance when it is aff	ected 50% of the population
EINECS	European Invent	ory of Existing Commercia	l Chemical Substances
EmS	Emergency plan		
ES	Identification coc	le for each substance liste	d in EINECS
EU	European Union		
EuPCS	European Produc	t Categorisation System	
IATA	International Air	Transport Association	
IBC	International Coc Dangerous Chem		nd Equipment of Ships Carrying
ICAO	International Civ	il Aviation Organization	
IMDG		itime Dangerous Goods	
INCI		nenclature of Cosmetic In	gredients
ISO		anization for Standardizat	
IUPAC	-	on of Pure and Applied Ch	
LC 5 0			ch it can be expected death of 50% of th

Page 16/18



according to Regulation (EC) No 1907/2006 (REACH) as amended				
TELHARD PUR HS				
Creation date	23rd January 2017			
Revision date	10th June 2022	Version	3.0	
LD50	Lethal dose of a su population	ıbstance in which it can b	e expected death of 50% of the	
log Kow	Octanol-water par	tition coefficient		
MARPOL	International Conv	ention for the Prevention	of Pollution from Ships	
OEL	Occupational Expo	sure Limits		
PBT	Persistent, Bioaccu	imulative and Toxic		
PNEC	Predicted no-effect	t concentration		
ppm	Parts per million			
REACH	Registration, Evalu	ation, Authorisation and	Restriction of Chemicals	
RID	Agreement on the	transport of dangerous g	oods by rail	
UN	Four-figure identifi Model Regulations	cation number of the sub	ostance or article taken from the UN	
UVCB	Substances of unk biological material		ition, complex reaction products or	
VOC	Volatile organic co	mpounds		
vPvB	Very Persistent an	d very Bioaccumulative		
Acute Tox.	Acute toxicity			
Aquatic Chronic	Hazardous to the a	aquatic environment (chro	onic)	
Asp. Tox.	Aspiration hazard			
Eye Irrit.	Eye irritation			
Flam. Liq.	Flammable liquid			
Resp. Sens.	Respiratory sensiti	zation		
Skin Irrit.	Skin irritation			
Skin Sens.	Skin sensitization			
STOT SE	Specific target org	an toxicity - single expos	ure	

#### Training guidelines

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

As from 24 August 2023 adequate training is required before industrial or professional use.

#### **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

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 3.0 replaces the SDS version from 27.5.2020. Overall revision of SDS according to Commission Regulation (EU) 2020/878.

#### More information

Classification procedure - calculation method.

#### Statement

Page 17/18



according to Regulation (EC) No 1907/2006 (REACH) as amended				
TELHARD PUR HS				
Creation date	23rd January 2017			
Revision date 10th June 2022 Version 3.0				

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 18/18

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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 sc	enario: PROC1, PROC2, PROC 3, PROC4, PROC5, PROC 7, PROC8a, PROC8b,
	PROC10, PROC13, PROC15
Environmental release	: ERC4, ERC5

#### Basic conditions to control the hazard for workers:

Duration of work activities	· Covers evenesure up to 8 h/d (uplace otherwise epocified)
Duration of work activities	: Covers exposure up to 8 h/d (unless otherwise specified)
Concentration	: Work with the hardener, the hardened 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 hardener and the hardened 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
	<ul> <li>SDS).</li> <li>Abide by general principles of safe and hygienic work with chemical substances.</li> <li>Workplaces must meet the requirements for work with flammable liquids capable of producing explosive mixtures of vapours with air.</li> <li>The workplace must meet the requirements against accidental leaks of the product into water or soil.</li> </ul>
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	Irrelevant.
Pumping the hardener and the hardened 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. Ensure that material transfer takes place in a containment or under vacuum. Ensure a good level of controlled ventilation (10- 15 air changes per hour).
Pumping the hardener and the hardened 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. Ensure that material transfer takes place in a containment or under vacuum.
Mixing, blending, thinning of the hardener and the hardened 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 level of controlled ventilation (10-15 air exchanges per hour). Avoid manual contact with wet parts.
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 (10-15 air exchanges per hour) with respiratory protection (half-face or full-face respirator) provided with type A/P2 filter.
Manual hardened 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 basic level of ventilation (3-5 air exchanges per hour).
Dipping or pouring application of hardened coating composition.	PROC 13 Treatment of articles by dipping and pouring	Ensure a good level of controlled ventilation (10- 15 air changes per hour).
Free drying of hardened 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	Ensure a basic level of ventilation (3-5 air changes per hour). Avoid manual contact with wet parts.
Continuous drying and hardening processes of the hardened coating composition film at increased temperature	PROC 2 Use within continuous chemical production process with occasional controlled exposure (e.g. at sampling).	Does not require further risk control measures.

in drying tunnels equipped with vapour extraction		
Batch drying and hardening processes of the hardened coating composition film at increased temperature in extracted chambers	PROC 3 Use within closed batch process of mixture manufacturing.	Working process a maximum of 4h per day does not require further risk control measures.
Laboratory checks on the hardener and 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 hardener, 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 hardener and coat waste and materials contaminated by coat and its compounds in cooperation with authorised persons as of hazardous waste. Dispose of solvent waste from tools and device cleaning as of hazardous waste. Prevent release or discharge of any liquid waste to surface and ground water unless it is treated and coating composition compounds are removed.

#### 2. Professional use

Application sector	: SU 22	
Chemical product category	: PC9a	
Partial processes covered by expo	osure scenario: PROC 3, PROC4, PROC5, PROC 7, PROC8a, PROC8b, PROC10, PROC11,	
	PROC13, PROC15, PROC19	
Environmental release	: ERC 8a, ERC 8d, ERC8c, ERC8f	

#### 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 hardener and standard hardened 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 hardened 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 hardener and the hardened 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
	<ul> <li>SDS).</li> <li>Abide by general principles of safe and hygienic work with chemical substances.</li> <li>Workplaces must meet the requirements for work with flammable liquids capable of producing explosive mixtures of vapours with air.</li> <li>The workplace must meet the requirements against accidental leaks of the product into water or soil.</li> </ul>
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 hardener and the hardened 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	Indoor: local air extraction at potential emission release or basic level of ventilation (3-5 air exchanges per hour). Outdoor: secure catch dripping paint

Pumping the hardener and the hardened 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 basic level of ventilation (3-5 air exchanges per hour). Outdoor: secure catch dripping paint
Mixing, blending, thinning of hardener and the hardened 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 level of controlled ventilation (10-15 air changes per hour). Avoid carrying out activities involving exposure for more than 1 hour per day. Outdoor: working process a maximum of 1h 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. Avoid carrying out activities involving exposure for more than 4 hour per day.
Manual hardened 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 level of ventilation (10-15 air exchanges per hour). Outdoor: does not require further risk control measures
Dipping or pouring application of hardened coating composition.	PROC 13 Treatment of articles by dipping and pouring	Indoor: local air extraction at potential emission release or good level of controlled ventilation (10-15 air exchanges per hour). Avoid manual contact with wet parts. Outdoor: use respiratory protection with filter type A. Avoid manual contact with wet parts.
Batch drying and hardening processes of the hardened coating composition film at increased temperature in extracted chambers	PROC 3 Use within closed batch process of mixture manufacturing.	Local air extraction at potential emission release or good level of controlled ventilation (10-15 air exchanges per hour).
Free drying of hardened 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: basic level of ventilation (3-5 air exchanges per hour). Avoid manual contact with wet parts. Outdoor: avoid carrying out activities involving exposure for more than 1 hour per day. Avoid manual contact with wet parts.
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 level of ventilation (10-15 air exchanges per hour). Outdoor: does not require further risk control measures
Laboratory checks on the hardener and the hardened 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 hardener, 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 hardener waste, 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.