This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

# **PU ADHESIVE SEALANT**

Printing:	21/02/2023	Date of compilation: 17/12/2021	Revised: 18/01/2023	Version: 3 (Replaced 2)					
SECT	ION 1: IDENTI	FICATION OF THE SUBSTANCE/M	1IXTURE AND OF THE CO	MPANY/UNDERTAKING					
1.1	Product identif	fier: PU ADHESIVE	SEALANT						
		f identification:							
	UFI:	8GDV-H2WE-3	300F-AQ37						
1.2	-								
	Relevant uses: Car repair. For professional users only.								
		ainst: All uses not specified in this section	on or in section 7.3						
1.3	-	supplier of the safety data sheet:							
		- Zachodniopomorskie - Polska 35 123 94 - Fax: +48 94 35 126 22 om.pl							
1.4	Emergency tele	ephone number: (8am-4pm)+48 09	94 35 123 94; 112						
SECT	ION 2: HAZARI	DS IDENTIFICATION **							
2.1	<b>Classification</b>	of the substance or mixture:							
	<b>CLP Regulation</b>	ו (EC) No 1272/2008:							
	Classification of	this product has been carried out in ac	cordance with CLP Regulation	(EC) No 1272/2008.					
	Resp. Sens. 1: S	ensitisation, respiratory, Category 1, H	334						
2.2	Label elements	5:							
	CLP Regulation	n (EC) No 1272/2008:							
	Danger								
	Hazard statem	ients:							
	Resp. Sens. 1: H	1334 - May cause allergy or asthma syn	nptoms or breathing difficulties	s if inhaled.					
	Precautionary	statements:							
		athing dust/fume/gas/mist/vapours/spr	ay.						
	P304+P340: IF P342+P311: If e	iratory protection. INHALED: Remove person to fresh air a experiencing respiratory symptoms: Call f contents/container in accordance with	a POISON CENTER or doctor	/physician.					
	Supplementar	-							
	EUH211: Warnin	ns isocyanates. May produce an allergic Ig! Hazardous respirable droplets may b at contribute to the classification		not breathe spray or mist.					
	4,4´-methylened	diphenyl diisocyanate, isomers and hom	ologues; 4,4'-methylenediphe	enyl diisocyanate					
	Additional Lab	elling:							
	-	st 2023 adequate training is required b	efore industrial or professiona	l use.					
2.3	Other hazards:								
		neet PBT/vPvB criteria ting properties: The product fails to me	eet the criteria.						
** Chang	ges with regards to	the previous version							

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\*\* Changes with regards to the previous version

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# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS \*\*

## 3.1 Substance:

Non-applicable

## 3.2 Mixture:

Chemical description: Mixture composed of chemical products

#### **Components:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

	Identification		Chemical name/Classification			
CAS:	1330-20-7	Xylene <sup>(1)</sup>	lene <sup>(1)</sup> Self-classified			
EC: Index: REACH:	215-535-7 601-022-00-9 01-2119488216-32- XXXX	Regulation 1272/2008	Acute Tox. 4: H312+H332; Aquatic Chronic 3: H412; Asp. Tox. 1: H304; Eye Irrit. 2: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315; STOT RE 2: H373; STOT SE 3: H335 - Danger	<li>(1)</li>	5 - <10 %	
CAS:	13463-67-7	Titanium dioxide (ae	rodynamic diameter ≤ 10 μm) <sup>(1)</sup>	ATP ATP14		
EC: Index: REACH:	236-675-5 022-006-00-2 01-2119489379-17- XXXX	Regulation 1272/2008	Carc. 2: H351 - Warning	<b>♦</b>	2,5 - <5 %	
CAS:	141-78-6 Ethyl acetate <sup>(1)</sup>					
EC: Index: REACH:	205-500-4 607-022-00-5 01-2119475103-46- XXXX	Regulation 1272/2008	Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066 - Danger	(!)	1 - <2,5 %	
CAS:	9016-87-9	4,4'-methylenediphe	enyl diisocyanate, isomers and homologues <sup>(1)</sup>	ATP ATP01		
EC: Index: REACH:	618-498-9 Non-applicable Non-applicable	Regulation 1272/2008	Acute Tox. 4: H332; Carc. 2: H351; Eye Irrit. 2: H319; Resp. Sens. 1: H334; Skin Ir H315; Skin Sens. 1: H317; STOT RE 2: H373; STOT SE 3: H335 - Danger	rit. 2: 🚺 🕹	<1 %	
CAS: 101-68-8 EC: 202-966-0 Index: 615-005-00-9 REACH: 01-2119457014-47- XXXX		4,4'-methylenediphe	vlenediphenyl diisocyanate <sup>(1)</sup> ATP CLP00			
		Regulation 1272/2008	Acute Tox. 4: H332; Carc. 2: H351; Eye Irrit. 2: H319; Resp. Sens. 1: H334; Skin Ir H315; Skin Sens. 1: H317; STOT RE 2: H373; STOT SE 3: H335 - Danger	rit. 2: 🚺 🐼	<1 %	

(1) Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

## Other information:

Identification	Specific concentration limit
4,4 '-methylenediphenyl diisocyanate, isomers and homologues CAS: 9016-87-9 EC: 618-498-9	% (w/w) >=5: Skin Irrit. 2 - H315 % (w/w) >=5: Eye Irrit. 2 - H319 % (w/w) >=0,1: Resp. Sens. 1 - H334 % (w/w) >=5: STOT SE 3 - H335
4,4 ´-methylenediphenyl diisocyanate CAS: 101-68-8 EC: 202-966-0	% (w/w) >=5: Skin Irrit. 2 - H315 % (w/w) >=5: Eye Irrit. 2 - H319 % (w/w) >=0,1: Resp. Sens. 1 - H334 % (w/w) >=5: STOT SE 3 - H335

\*\* Changes with regards to the previous version

# SECTION 4: FIRST AID MEASURES

# 4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

# By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

# By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

## By eye contact:



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SECT	TION 4: FIRST	AID MEASURES (continued)				
	unless they are	s quickly as possible with the SDS for the	could cause further damage	contact lenses, these should be removed . In all cases, after cleaning, a doctor should		
4.2	out the mouth	vomiting, but if it does happen keep the h and throat, as they may have been affect ant symptoms and effects, both acute	ed during ingestion.	n. Keep the person affected at rest. Rinse		
	Acute and dela	ayed effects are indicated in sections 2 and	d 11.			
4.3	Indication of	any immediate medical attention an	d special treatment need	ed:		
	Non-applicable	:				
SECT	TION 5: FIREFI	IGHTING MEASURES				
5.1	Extinguishing	media:				
		nguishing media:				
	substances. In textinguishers (A	flammable under normal conditions of sto the case of inflammation as a result of im ABC powder), in accordance with the Regu ctinguishing media:	proper manipulation, storage	or use preferably use polyvalent powder		
		ENDED NOT to use full jet water as an ext	tinguishing agent.			
5.2		ds arising from the substance or mix				
5.3	As a result of co	ombustion or thermal decomposition react an present a serious health risk.		that can become highly toxic and,		
		um emergency facilities and equipment sh 39/654/EC.		hing and self-contained breathing apparatus ets, portable first aid kit,) in accordance		
	Act in accordan emergencies. E	ice with the Internal Emergency Plan and liminate all sources of ignition. In case of plosion or BLEVE as a result of high temp	fire, cool the storage contain			
SECT	TION 6: ACCID	ENTAL RELEASE MEASURES				
6.1	Personal prec	cautions, protective equipment and e	mergency procedures:			
	For non-emer	rgency personnel:				
	without protect Above all preve Remove any so	ion. Personal protection equipment must	be used against potential con able mixtures, through either arges by interconnecting all t			

## For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

#### 6.2 **Environmental precautions:**

Avoid spillage into the aquatic environment as it contains substances potentially dangerous for this. Contain the product absorbed in hermetically sealed containers. In the case of serious spillage into the aquatic environment notify the relevant authority.

#### 6.3 Methods and material for containment and cleaning up:

# It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

#### 6.4 **Reference to other sections:**



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# SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

See sections 8 and 13.

# SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

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

A.- Technical measures for storage

Minimum Temp.:	0 °C
Maximum Temp.:	25 °C
Maximum time:	12 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

## 7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

Directive (EU) 2000/39, Directive 2004/37/EC, Directive (EU) 2006/15, Directive (EU) 2009/161, Directive (EU) 2017/164, Directive (EU) 2019/1831:

Identification		Occupational exposure limits			
Xylene		IOELV (8h)	50 ppm	221 mg/m <sup>3</sup>	
CAS: 1330-20-7	EC: 215-535-7	IOELV (STEL)	100 ppm	442 mg/m <sup>3</sup>	
Ethyl acetate		IOELV (8h)	200 ppm	734 mg/m <sup>3</sup>	
CAS: 141-78-6	EC: 205-500-4	IOELV (STEL)	400 ppm	1468 mg/m <sup>3</sup>	

## DNEL (Workers):

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
Xylene	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 1330-20-7	Dermal	Non-applicable	Non-applicable	212 mg/kg	Non-applicable
EC: 215-535-7	Inhalation	442 mg/m <sup>3</sup>	442 mg/m <sup>3</sup>	221 mg/m <sup>3</sup>	221 mg/m <sup>3</sup>
Ethyl acetate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 141-78-6	Dermal	Non-applicable	Non-applicable	63 mg/kg	Non-applicable
EC: 205-500-4	Inhalation	1468 mg/m³	1468 mg/m <sup>3</sup>	734 mg/m <sup>3</sup>	734 mg/m <sup>3</sup>

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# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

		Short e	exposure	Long e	xposure
Identification		Systemic	Local	Systemic	Local
4,4 '-methylenediphenyl diisocyanate, isomers and homologues	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 9016-87-9	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 618-498-9	Inhalation	Non-applicable	0,1 mg/m³	Non-applicable	0,05 mg/m <sup>3</sup>
4,4 '-methylenediphenyl diisocyanate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 101-68-8	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 202-966-0	Inhalation	Non-applicable	0,1 mg/m <sup>3</sup>	Non-applicable	0,05 mg/m <sup>3</sup>

## DNEL (General population):

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
Xylene	Oral	Non-applicable	Non-applicable	12,5 mg/kg	Non-applicable
CAS: 1330-20-7	Dermal	Non-applicable	Non-applicable	125 mg/kg	Non-applicable
EC: 215-535-7	Inhalation	260 mg/m <sup>3</sup>	260 mg/m <sup>3</sup>	65,3 mg/m <sup>3</sup>	65,3 mg/m <sup>3</sup>
Ethyl acetate	Oral	Non-applicable	Non-applicable	4,5 mg/kg	Non-applicable
CAS: 141-78-6	Dermal	Non-applicable	Non-applicable	37 mg/kg	Non-applicable
EC: 205-500-4	Inhalation	734 mg/m <sup>3</sup>	734 mg/m <sup>3</sup>	367 mg/m <sup>3</sup>	367 mg/m <sup>3</sup>
4,4 '-methylenediphenyl diisocyanate, isomers and homologues	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 9016-87-9	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 618-498-9	Inhalation	Non-applicable	0,05 mg/m <sup>3</sup>	Non-applicable	0,025 mg/m <sup>3</sup>
4,4 '-methylenediphenyl diisocyanate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 101-68-8	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 202-966-0	Inhalation	Non-applicable	0,05 mg/m <sup>3</sup>	Non-applicable	0,025 mg/m <sup>3</sup>

#### PNEC:

Identification				
Xylene	STP	6,58 mg/L	Fresh water	0,327 mg/L
CAS: 1330-20-7	Soil	2,31 mg/kg	Marine water	0,327 mg/L
EC: 215-535-7	Intermittent	0,327 mg/L	Sediment (Fresh water)	12,46 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	12,46 mg/kg
Ethyl acetate	STP	650 mg/L	Fresh water	0,24 mg/L
CAS: 141-78-6	Soil	0,148 mg/kg	Marine water	0,024 mg/L
EC: 205-500-4	Intermittent	1,65 mg/L	Sediment (Fresh water)	1,15 mg/kg
	Oral	0,2 g/kg	Sediment (Marine water)	0,115 mg/kg
4,4 '-methylenediphenyl diisocyanate, isomers and homologues	STP	1 mg/L	Fresh water	1 mg/L
CAS: 9016-87-9	Soil	1 mg/kg	Marine water	0,1 mg/L
EC: 618-498-9	Intermittent	10 mg/L	Sediment (Fresh water)	Non-applicable
	Oral	Non-applicable	Sediment (Marine water)	Non-applicable
4,4 '-methylenediphenyl diisocyanate	STP	1 mg/L	Fresh water	1 mg/L
CAS: 101-68-8	Soil	1 mg/kg	Marine water	0,1 mg/L
EC: 202-966-0	Intermittent	10 mg/L	Sediment (Fresh water)	Non-applicable
	Oral	Non-applicable	Sediment (Marine water)	Non-applicable

# 8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection



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		CONTROLS/PERSON/			
	Pictogram	PPE	Labelling	CEN Standard	Remarks
	Mandatory respiratory tract protection	Filter mask for gases and vapours		EN 405:2002+A1:2010	Replace when there is a taste or smell of contaminant inside the face mask. If the contaminant comes with warnings it i recommended to use isolation equipme
C S	pecific protectio	n for the hands			•
	Pictogram	PPE	Labelling	CEN Standard	Remarks
	Mandatory hand protection	Protective gloves against minor risks	CATI		Replace gloves in case of any sign of dama prolonged periods of exposure to the prod professional users/industrials, we recommer CE III gloves in line with standards EN 420: A1:2010 and EN ISO 374-1:2016+A1:20
te	otal reliability an	d has therefore to be che			erial can not be calculated in advance
D E	ye and face prot	PPE	Labelling	CEN Standard	Remarks
	Mandatory face protection	Panoramic glasses against splash/projections.		EN 166:2002 EN ISO 4007:2018	Clean daily and disinfect periodically accord the manufacturer's instructions. Use if the risk of splashing.
E B	ody protection Pictogram	PPE	Labelling	CEN Standard	Remarks
		Work clothing	CATI		Replace before any evidence of deterioratic periods of prolonged exposure to the prod professional/industrial users CE III is recommended, in accordance with the regu in EN ISO 6529:2013, EN ISO 6530:2005, I 13688:2013, EN 464:1994.
		Anti-slip work shoes		EN ISO 20347:2012	Replace before any evidence of deterioratic periods of prolonged exposure to the prod professional/industrial users CE III is recommended, in accordance with the regu in EN ISO 20345:2012 y EN 13832-1:20
F A	dditional emerge	ency measures			
	Emergency me	asure St	andards	Emergency meas	ure Standards
	Emergency sh	ISO 3864-1:20	5I Z358-1 11, ISO 3864-4:201	11 Eyewash statio	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2
In ac spilla <b>Vola</b> With V	cordance with the p ge of both the p <b>tile organic co</b> regard to Direct O.C. (Supply): O.C. density at verage carbon r	and its container. <b>mpounds:</b> ive 2010/75/EU, this proc 9,45 20 °C: 130,0 number: 7,47	For additional in	nformation see subsectio owing characteristics:	is recommended to avoid environmen n 7.1.D

## 9.1 Information on basic physical and chemical properties:

\*Not relevant due to the nature of the product, not providing information property of its hazards.

-adds-

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SEC	TION 9: PHYSICAL AND CHEMICAL PROPERTIE	ES (continued)	
	For complete information see the product datasheet.		
	Appearance:		
	Physical state at 20 °C:	Liquid	
	Appearance:	Paste	
	Colour:	Grey	
	Odour:	Characteristic	
	Odour threshold:	Non-applicable *	
	Volatility:		
	Boiling point at atmospheric pressure:	124 °C	
	Vapour pressure at 20 °C:	2186 Pa	
	Vapour pressure at 50 °C:	9402,1 Pa (9,4 kPa)	
	Evaporation rate at 20 °C:	Non-applicable *	
	Product description:		
	Density at 20 °C:	1,2 kg/m³	
	Relative density at 20 °C:	1,096	
	Dynamic viscosity at 20 °C:	Non-applicable *	
	Kinematic viscosity at 20 °C:	Non-applicable *	
	Kinematic viscosity at 40 °C:	>20,5 mm²/s	
	Concentration:	Non-applicable *	
	pH:	Non-applicable *	
	Vapour density at 20 °C:	Non-applicable *	
	Partition coefficient n-octanol/water 20 °C:	Non-applicable *	
	Solubility in water at 20 °C:	Non-applicable *	
	Solubility properties:	Non-applicable *	
	Decomposition temperature:	Non-applicable *	
	Melting point/freezing point:	Non-applicable *	
	Flammability:		
	Flash Point:	Non Flammable (>60 °C)	
	Flammability (solid, gas):	Non-applicable *	
	Autoignition temperature:	209 °C	
	Lower flammability limit:	Non-applicable *	
	Upper flammability limit:	Non-applicable *	
	Particle characteristics:		
	Median equivalent diameter:	Non-applicable	
9.2	Other information:		
	Information with regard to physical hazard cla		
	Explosive properties:	Non-applicable *	
	Oxidising properties:	Non-applicable *	
	Corrosive to metals:	Non-applicable *	
	Heat of combustion:	Non-applicable *	
	Aerosols-total percentage (by mass) of flammable components: Other safety characteristics:	Non-applicable *	
	Surface tension at 20 °C:	Non-applicable *	
1	Refraction index:	Non-applicable *	
	*Not relevant due to the nature of the product, not providing info		

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# SECTION 10: STABILITY AND REACTIVITY

# 10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

## 10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

## **10.3** Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

#### **10.4** Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Precaution	Precaution	Not applicable

#### 10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

## **10.6** Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

# SECTION 11: TOXICOLOGICAL INFORMATION \*\*

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

The experimental information related to the toxicological properties of the product itself is not available

#### Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

- A- Ingestion (acute effect):
  - Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for consumption. For more information see section 3
  - Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.
- B- Inhalation (acute effect):
  - Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
  - Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
- C- Contact with the skin and the eyes (acute effect):
  - Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for skin contact. For more information see section 3.
  - Contact with the eyes: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
  - Carcinogenicity: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with carcinogenic effects. For more information see section 3.

IARC: Xylene (3); 4,4<sup>'</sup>-methylenediphenyl diisocyanate, isomers and homologues (3); 4,4<sup>'</sup>-methylenediphenyl diisocyanate (3); Titanium dioxide (aerodynamic diameter  $\leq$  10 µm) (2B)

- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

E- Sensitizing effects:

<sup>\*\*</sup> Changes with regards to the previous version



ION 11: TOXI	COLOGICAL INFORMATION ** (cc	ntinued)		
- Skin: Ba dangerous	bry: Prolonged exposure can result in spe sed on available data, the classification c with sensitising effects. For more informa get organ toxicity (STOT) - single exposu	riteria are not met. However, it c ition see section 3.	ontains substances class	ified as
inhalation.	vailable data, the classification criteria are For more information see section 3. get organ toxicity (STOT)-repeated expos		ubstances classified as h	nazardous fo
However, it section 3. - Skin: Ba	target organ toxicity (STOT)-repeated ex does contain substances which are class sed on available data, the classification c dangerous due to repetitive exposure. F	ified as dangerous due to repetiti riteria are not met. However, it d	ve exposure. For more in oes contain substances	nformation s
	vailable data, the classification criteria are ct. For more information see section 3.	e not met. However, it does cont		as nazaruo
All				
Other inform	ation:			
		$er \leq 10 \text{ um}$ ): The classification a	s a carcinogen by inhala	tion applies
CAS 13463-67-	ation: 7 Titanium dioxide (aerodynamic diamet powder form containing 1 % or more of t			
CAS 13463-67- to mixtures in p aerodynamic di	7 Titanium dioxide (aerodynamic diamet powder form containing 1 % or more of t ameter $\leq$ 10 µm	itanium dioxide which is in the fo		
CAS 13463-67- to mixtures in p aerodynamic di	7 Titanium dioxide (aerodynamic diamet powder form containing 1 % or more of t	itanium dioxide which is in the fo		
CAS 13463-67- to mixtures in p aerodynamic di	7 Titanium dioxide (aerodynamic diamet powder form containing 1 % or more of t ameter $\leq$ 10 µm	itanium dioxide which is in the fo		particles wi
CAS 13463-67- to mixtures in p aerodynamic di	7 Titanium dioxide (aerodynamic diamet bowder form containing 1 % or more of t ameter $\leq$ 10 µm <b>ology information on the substance</b>	itanium dioxide which is in the fo	rm of or incorporated in	
CAS 13463-67- to mixtures in p aerodynamic di <b>Specific toxic</b>	7 Titanium dioxide (aerodynamic diamet bowder form containing 1 % or more of t ameter $\leq$ 10 µm <b>ology information on the substance</b>	itanium dioxide which is in the fo	rm of or incorporated in Acute toxicity	particles wi
CAS 13463-67- to mixtures in p aerodynamic di <b>Specific toxic</b> Xylene	7 Titanium dioxide (aerodynamic diamet bowder form containing 1 % or more of t ameter $\leq$ 10 µm <b>ology information on the substance</b>	itanium dioxide which is in the fo s: LD50 oral	rm of or incorporated in Acute toxicity 2100 mg/kg	particles wi
CAS 13463-67- to mixtures in p aerodynamic di <b>Specific toxic</b> Xylene CAS: 1330-20-7	7 Titanium dioxide (aerodynamic diamet bowder form containing 1 % or more of t ameter $\leq$ 10 µm <b>ology information on the substance</b>	itanium dioxide which is in the fo s: LD50 oral LD50 dermal	rm of or incorporated in Acute toxicity 2100 mg/kg 1100 mg/kg	Genu Rat
CAS 13463-67- to mixtures in p aerodynamic di <b>Specific toxic</b> Xylene CAS: 1330-20-7 EC: 215-535-7	7 Titanium dioxide (aerodynamic diamet bowder form containing 1 % or more of t ameter $\leq$ 10 µm <b>ology information on the substance</b>	itanium dioxide which is in the fo	rm of or incorporated in Acute toxicity 2100 mg/kg 1100 mg/kg 11 mg/L (ATEi)	particles wi
CAS 13463-67- to mixtures in p aerodynamic di <b>Specific toxic</b> Xylene CAS: 1330-20-7 EC: 215-535-7 Ethyl acetate	7 Titanium dioxide (aerodynamic diamet bowder form containing 1 % or more of t ameter $\leq$ 10 µm <b>ology information on the substance</b>	itanium dioxide which is in the fo LD50 oral LD50 dermal LC50 inhalation LD50 oral	rm of or incorporated in           Acute toxicity           2100 mg/kg           1100 mg/kg           11 mg/L (ATEi)           4100 mg/kg	particles wi
CAS 13463-67- to mixtures in p aerodynamic di <b>Specific toxic</b> Xylene CAS: 1330-20-7 EC: 215-535-7 Ethyl acetate CAS: 141-78-6 EC: 205-500-4	7 Titanium dioxide (aerodynamic diamet powder form containing 1 % or more of t ameter ≤ 10 μm ology information on the substances Identification	itanium dioxide which is in the fo S: LD50 oral LD50 dermal LD50 oral LD50 oral LD50 oral LD50 oral	Acute toxicity           2100 mg/kg           1100 mg/kg           11 mg/L (ATEi)           4100 mg/kg           20000 mg/kg	particles wi Genu Rat Rat Rat Rat
CAS 13463-67- to mixtures in p aerodynamic di <b>Specific toxic</b> Xylene CAS: 1330-20-7 EC: 215-535-7 Ethyl acetate CAS: 141-78-6 EC: 205-500-4	7 Titanium dioxide (aerodynamic diamet bowder form containing 1 % or more of t ameter $\leq$ 10 µm <b>ology information on the substance</b>	itanium dioxide which is in the fo s: LD50 oral LD50 dermal LD50 oral LD50 oral LD50 oral LD50 oral LD50 dermal LD50 dermal LD50 dermal	Acute toxicity           2100 mg/kg           1100 mg/kg           11 mg/L (ATEi)           4100 mg/kg           20000 mg/kg           >20 mg/L           10000 mg/kg	Particles wi Genu Rat Rat Rat Rab
CAS 13463-67- to mixtures in p aerodynamic di <b>Specific toxic</b> Xylene CAS: 1330-20-7 EC: 215-535-7 Ethyl acetate CAS: 141-78-6 EC: 205-500-4 Titanium dioxide d	7 Titanium dioxide (aerodynamic diamet powder form containing 1 % or more of t ameter ≤ 10 μm ology information on the substances Identification	itanium dioxide which is in the fo s: LD50 oral LD50 dermal LC50 inhalation LD50 dermal LD50 dermal LD50 dermal LD50 oral LD50 oral	Acute toxicity           2100 mg/kg           1100 mg/kg           11 mg/L (ATEi)           4100 mg/kg           20000 mg/kg           >20 mg/L           10000 mg/kg           10000 mg/kg	Particles wi Genu Rat Rat Rat Rab
CAS 13463-67- to mixtures in p aerodynamic di <b>Specific toxic</b> Xylene CAS: 1330-20-7 EC: 215-535-7 Ethyl acetate CAS: 141-78-6 EC: 205-500-4 Titanium dioxide ( CAS: 13463-67-7 EC: 236-675-5	7 Titanium dioxide (aerodynamic diamet powder form containing 1 % or more of t ameter ≤ 10 μm ology information on the substances Identification	itanium dioxide which is in the fo s: LD50 oral LD50 dermal LC50 inhalation LD50 dermal LD50 dermal LD50 oral LD50 oral LD50 oral LD50 oral	Acute toxicity           2100 mg/kg           1100 mg/kg           11 mg/L (ATEi)           4100 mg/kg           20000 mg/kg           >20 mg/L           10000 mg/kg           >5 mg/L	Particles wi Genu Rat Rat Rat Rab
CAS 13463-67- to mixtures in p aerodynamic di <b>Specific toxic</b> Xylene CAS: 1330-20-7 EC: 215-535-7 Ethyl acetate CAS: 141-78-6 EC: 205-500-4 Titanium dioxide ( CAS: 13463-67-7 EC: 236-675-5	7 Titanium dioxide (aerodynamic diamet powder form containing 1 % or more of t ameter ≤ 10 μm ology information on the substances Identification	itanium dioxide which is in the fo s: LD50 oral LD50 dermal LC50 inhalation LD50 dermal LD50 dermal LD50 dermal LD50 oral LD50 oral LD50 oral LD50 oral LD50 oral	Acute toxicity           2100 mg/kg           1100 mg/kg           11 mg/L (ATEi)           4100 mg/kg           20000 mg/kg           >20 mg/L           10000 mg/kg           10000 mg/kg	Particles wi Genu Rat Rat Rat Rab
CAS 13463-67- to mixtures in p aerodynamic di <b>Specific toxic</b> Xylene CAS: 1330-20-7 EC: 215-535-7 Ethyl acetate CAS: 141-78-6 EC: 205-500-4 Titanium dioxide ( CAS: 13463-67-7 EC: 236-675-5 4,4´-methylenedi	7 Titanium dioxide (aerodynamic diamet powder form containing 1 % or more of t ameter ≤ 10 μm ology information on the substances Identification	itanium dioxide which is in the fo S: LD50 oral LD50 dermal LC50 inhalation LD50 oral LD50 oral LD50 oral LD50 oral LD50 oral LD50 oral LD50 oral LD50 oral LD50 oral	Acute toxicity           2100 mg/kg           1100 mg/kg           11 mg/L (ATEi)           4100 mg/kg           20000 mg/kg           >20 mg/L           10000 mg/kg           >5 mg/L           >2000 mg/kg           >5 mg/L           >2000 mg/kg	Particles wi Genu Rat Rat Rat Rab
CAS 13463-67- to mixtures in p aerodynamic di <b>Specific toxic</b> Xylene CAS: 1330-20-7 EC: 215-535-7 Ethyl acetate CAS: 141-78-6 EC: 205-500-4 Titanium dioxide ( CAS: 13463-67-7 EC: 236-675-5 4,4´-methylenedi CAS: 9016-87-9 EC: 618-498-9	7 Titanium dioxide (aerodynamic diamet powder form containing 1 % or more of t ameter ≤ 10 μm ology information on the substances Identification	itanium dioxide which is in the fo s: LD50 oral LD50 dermal LD50 dermal LD50 dermal LD50 dermal LC50 inhalation LD50 oral LD50 oral LD50 oral LD50 dermal LD50 dermal LD50 oral LD50 oral LD50 dermal LD50 oral LD50 oral LD50 oral LD50 oral LD50 dermal LD50 oral LD50 oral LD50 oral	Acute toxicity         2100 mg/kg         1100 mg/kg         11 mg/L (ATEi)         4100 mg/kg         20000 mg/kg         >20 mg/L         10000 mg/kg         >20000 mg/kg         >20 mg/L         10000 mg/kg         >2000 mg/kg	particles wi Genu Rat Rat Rat Rabb Rabb
CAS 13463-67- to mixtures in p aerodynamic di <b>Specific toxic</b> Xylene CAS: 1330-20-7 EC: 215-535-7 Ethyl acetate CAS: 141-78-6 EC: 205-500-4 Titanium dioxide ( CAS: 13463-67-7 EC: 236-675-5 4,4´-methylenedi CAS: 9016-87-9 EC: 618-498-9	7 Titanium dioxide (aerodynamic diamet powder form containing 1 % or more of t ameter ≤ 10 μm ology information on the substances Identification	itanium dioxide which is in the fo s: LD50 oral LD50 dermal LC50 inhalation LD50 oral LD50 dermal LC50 inhalation LD50 oral LD50 dermal LD50 dermal LD50 oral LD50 oral LD50 oral	Acute toxicity           2100 mg/kg           1100 mg/kg           11 mg/L (ATEi)           4100 mg/kg           20000 mg/kg           >20 mg/L           10000 mg/kg           >5 mg/L           >2000 mg/kg           >5 mg/L           >2000 mg/kg	Particles wi Genu Rat Rat Rat Rabb

## Acute Toxicity Estimate (ATE mix):

	Ingredient(s) of unknown toxicity	
Oral	>2000 mg/kg (Calculation method)	Non-applicable
Dermal	13414,63 mg/kg (Calculation method)	0 %
Inhalation	134,15 mg/L (4 h) (Calculation method)	0 %

# **11.2** Information on other hazards:

# Endocrine disrupting properties

Endocrine-disrupting properties: The product fails to meet the criteria.

#### Other information

Non-applicable

\*\* Changes with regards to the previous version

# SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available



-	1/02/2023     Date of compilation: 1       ON 12: ECOLOCICAL INFORMATION			evised: 18/01/2023		Version: 3 (Re		
	ON 12: ECOLOGICAL INFORMATIO	N (Contin	iuea)					
1 1	Toxicity:							
/	Acute toxicity:							
	Identification			Concentration		Specie	S	Genus
	Xylene		LC50	>10 - 100 mg/L (96 h	ı)			Fish
	CAS: 1330-20-7		EC50	>10 - 100 mg/L (48 h	ı)			Crustacea
	EC: 215-535-7		EC50	>10 - 100 mg/L (72 h	ı)			Algae
Γ	Ethyl acetate		LC50	230 mg/L (96 h)		Pimephales p	romelas	Fish
	CAS: 141-78-6		EC50	717 mg/L (48 h)		Daphnia m	nagna	Crustacea
	EC: 205-500-4		EC50	3300 mg/L (48 h)		Scenedesmus s	ubspicatus	Algae
	4,4 '-methylenediphenyl diisocyanate		LC50	1000 mg/L (96 h)		Brachydani	o rerio	Fish
	CAS: 101-68-8		EC50	Non-applicable				
l	EC: 202-966-0		EC50	Non-applicable				
(	Chronic toxicity:							
	Identification			Concentration		Specie	S	Genus
ſ	Xylene		NOEC	1,3 mg/L		Oncorhynchu	s mykiss	Fish
	CAS: 1330-20-7 EC: 215-535-7		NOEC	1,17 mg/L		Ceriodaphni	a dubia	Crustacea
ľ	Ethyl acetate		NOEC	9,65 mg/L		Pimephales p	romelas	Fish
	CAS: 141-78-6 EC: 205-500-4		NOEC	2,4 mg/L		Daphnia m	lagna	Crustacea
Ī	4,4 '-methylenediphenyl diisocyanate		NOEC	Non-applicable				
	CAS: 101-68-8 EC: 202-966-0		NOEC	10 mg/L		Daphnia m	lagna	Crustacea
2 1	Persistence and degradability:							
5	Substance-specific information:							
	Identification		De	egradability		Biode	gradability	
	Xylene	BC	DD5	Non-applicable	Conce	ntration	Non-a	applicable
	CAS: 1330-20-7	CC	DD	Non-applicable	Period		28 da	ys
	EC: 215-535-7	BC	DD5/COD	Non-applicable	% Bio	degradable	88 %	
ſ	Ethyl acetate	BC	DD5	1,36 g O2/g	Conce	ntration	100 n	ng/L
	CAS: 141-78-6	CC	DD	1,69 g O2/g	Perioc		14 da	ys
	EC: 205-500-4	BC	DD5/COD	0,8	% Bio	degradable	83 %	
	Bioaccumulative potential:							
3 E	Bioaccumulative potential: Substance-specific information:							
3 E	Substance-specific information:	ification				Bioaccun	nulation poter	ntial
3 E 9	Substance-specific information:	fication			BCF		nulation poter 9	ntial
3 E	Substance-specific information: Identi	fication					-	ntial
3 E	Substance-specific information: Identi	ification			Pov	:	9	ntial
3 E	Substance-specific information: Identi Xylene CAS: 1330-20-7	fication			Pov	: / Log ential	9 2.77	ntial
3 E	Substance-specific information: Identi Xylene CAS: 1330-20-7 EC: 215-535-7	ification			Pov Pot BCF	: / Log ential	9 2.77 Low	ntial
3 E	Substance-specific information: Identi Xylene CAS: 1330-20-7 EC: 215-535-7 Ethyl acetate	ification			Pov Pot BCF Pov	: / Log ential :	9 2.77 Low 30	ntial
3	Substance-specific information: Identi Xylene CAS: 1330-20-7 EC: 215-535-7 Ethyl acetate CAS: 141-78-6	ification			Pov Pot BCF Pov	: / Log ential : / Log ential	9 2.77 Low 30 0.73	ntial
3 E	Substance-specific information:           Identi           Xylene           CAS: 1330-20-7           EC: 215-535-7           Ethyl acetate           CAS: 141-78-6           EC: 205-500-4	fication			Pov Pot BCF Pov Pot BCF	: / Log ential : / Log ential	9 2.77 Low 30 0.73 Moderate	ntial
3 6	Substance-specific information:           Identi           Xylene           CAS: 1330-20-7           EC: 215-535-7           Ethyl acetate           CAS: 141-78-6           EC: 205-500-4           4,4 ´-methylenediphenyl diisocyanate	ification			Pov Pot BCF Pov Pot BCF Pov	: / Log ential : / Log ential :	9 2.77 Low 30 0.73 Moderate 150	ntial
	Substance-specific information:           Identi           Xylene           CAS: 1330-20-7           EC: 215-535-7           Ethyl acetate           CAS: 141-78-6           EC: 205-500-4           4,4´-methylenediphenyl diisocyanate           CAS: 101-68-8	ification			Pov Pot BCF Pov Pot BCF Pov	: / Log ential : / Log ential : / Log	9 2.77 Low 30 0.73 Moderate 150 4.51	ntial
	Substance-specific information:           Identi           Xylene           CAS: 1330-20-7           EC: 215-535-7           Ethyl acetate           CAS: 141-78-6           EC: 205-500-4           4,4´-methylenediphenyl diisocyanate           CAS: 101-68-8           EC: 202-966-0	fication	Abs	orption/desorption	Pov Pot BCF Pov Pot BCF Pov	: / Log ential : / Log ential : / Log	9 2.77 Low 30 0.73 Moderate 150 4.51	ntial
3 E 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Substance-specific information:           Identi           Xylene           CAS: 1330-20-7           EC: 215-535-7           Ethyl acetate           CAS: 141-78-6           EC: 205-500-4           4,4 ´-methylenediphenyl diisocyanate           CAS: 101-68-8           EC: 202-966-0           Mobility in soil:	ification		orption/desorption 202	Pov Pot BCF Pov Pot BCF Pov	: / Log ential : / Log ential : / Log	9 2.77 Low 30 0.73 Moderate 150 4.51 High	ntial
3 E 3	Substance-specific information:           Identi           Xylene           CAS: 1330-20-7           EC: 215-535-7           Ethyl acetate           CAS: 141-78-6           EC: 205-500-4           4,4´-methylenediphenyl diisocyanate           CAS: 101-68-8           EC: 202-966-0           Mobility in soil:	Ko			Pov Pot BCF Pov Pot BCF Pov	: / Log ential : / Log ential : / Log ential	9 2.77 Low 30 0.73 Moderate 150 4.51 High	
3 E 5	Substance-specific information:           Identi           Xylene           CAS: 1330-20-7           EC: 215-535-7           Ethyl acetate           CAS: 141-78-6           EC: 205-500-4           4,4´-methylenediphenyl diisocyanate           CAS: 101-68-8           EC: 202-966-0           Mobility in soil:           Identification           Xylene	Ko Ca	С	202 Moderate	Pov Pot BCF Pov Pot BCF Pov	: / Log ential : / Log ential : / Log ential Henry	9 2.77 Low 30 0.73 Moderate 150 4.51 High Volatilty 524,8	
3 E 9	Substance-specific information:         Identi           Xylene            CAS: 1330-20-7            EC: 215-535-7            Ethyl acetate            CAS: 141-78-6            EC: 205-500-4            4,4 '-methylenediphenyl diisocyanate            CAS: 101-68-8            EC: 202-966-0            Mobility in soil:            Xylene            CAS: 1330-20-7            EC: 215-535-7	Ko Ca	oc onclusion Irface tension	202 Moderate	Pov Pot BCF Pov Pot BCF Pov	: Log ential : / Log ential : / Log ential : / Log ential Henry Dry soil Moist soil	9 2.77 Low 30 0.73 Moder≭ 150 4.51 High Volatility 524,8 Yes	
4	Substance-specific information:         Identi           Xylene            CAS: 1330-20-7            EC: 215-535-7            Ethyl acetate            CAS: 141-78-6            EC: 205-500-4            4,4´-methylenediphenyl diisocyanate            CAS: 101-68-8            EC: 202-966-0            Mobility in soil:            Xylene            CAS: 1330-20-7	Ko Ko	oc onclusion Irface tension	202 Moderate Non-applicable	Pov Pot BCF Pov Pot BCF Pov	: Log ential : / Log ential : / Log ential ential Henry Dry soil	9 2.77 Low 30 0.73 Moder≭ 150 4.51 High Volatility 524,8 Yes	6 Pa·m³/mol



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# PU ADHESIVE SEALANT

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SECT	ION 12: ECOL	OGICAL INFORMATION (con	tinued)			
		Identification	Absorpt	ion/desorption	Vola	tility
	4,4 '-methylenedip	henyl diisocyanate	Кос	Non-applicable	Henry	Non-applicable
	CAS: 101-68-8		Conclusion	Non-applicable	Dry soil	Non-applicable
	EC: 202-966-0		Surface tension	2,068E-2 N/m (283,45 °C)	Moist soil	Non-applicable
12.5	Results of PB	Г and vPvB assessment:				-
	Product fails to	meet PBT/vPvB criteria				
12.6	Endocrine dis	rupting properties:				
	Endocrine-disru	pting properties: The product fails	s to meet the crite	eria.		
12.7	Other adverse	effects:				
	Not described					
SECT		OSAL CONSIDERATIONS				

## 13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
	waste paint and varnish containing organic solvents or other hazardous substances packaging containing residues of or contaminated by hazardous substances	Non dangerous

#### Type of waste (Regulation (EU) No 1357/2014):

Non-applicable

#### Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

#### **Regulations related to waste management:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

## SECTION 14: TRANSPORT INFORMATION \*\*

This product is not regulated for transport (ADR/RID,IMDG,IATA)

\*\* Changes with regards to the previous version

# SECTION 15: REGULATORY INFORMATION

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

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Non-applicable

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

## Seveso III:

Non-applicable

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....):



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SECTION 15: REGU	LATORY INFORMATION (continue	ed)	
diisocyanate by	han 0.1 % of 4,4 ´-methylenediphenyl d weight. 1. Shall not be used as substan ofessional use(s) after 24 August 2023,	ces on their own, as a constitu	ologues, 4,4´-methylenediphenyl Ient in other substances or in mixtures for
(a) the concent employed ensur	ation of diisocyanates individually and in	n combination is less than 0,1	% by weight, or (b) the employer or self- training on the safe use of diisocyanates
2. Shall not be j	placed on the market as substances on t		other substances or in mixtures for industrial
(a) the concent that the recipien paragraph 1 and information: "As	t of the substance(s) or mixture(s) is p	n combination is less than 0,1 rovided with information on the ne packaging, in a manner that g is required before industrial c	
	their own, as a constituent in other su		
<ol> <li>The training exposure to diis appropriate risk and health with (a) the training</li> </ol>	eferred to in point (b) of paragraph 1 sl ocyanates at the workplace without pre- management measures at national leve competence acquired by relevant vocat elements in point (a) of paragraph 5 for	judice to any national occupati I. Such training shall be condu ional training. That training sha all industrial and professional	onal exposure limit value or other Icted by an expert on occupational safety all cover as a minimum:
	elements in points (a) and (b) of paragr n mixtures at ambient temperature (incl		
<ul> <li>— spraying in a</li> <li>— application b</li> </ul>	ventilated booth / roller		
<ul> <li>application b</li> </ul>	/ brush		
<ul> <li>mechanical p</li> </ul>	/ dipping and pouring ost treatment (e.g. cutting) of not fully	cured articles which are not wa	arm anymore
<ul> <li>cleaning and</li> <li>any other use</li> </ul>	waste es with similar exposure through the der	mal and/or inhalation route	
(c) the training	elements in points (a), (b) and (c) of pa mpletely cured articles (e.g. freshly cure	ragraph 5 for the following use	25:
— maintenance	and repair that needs access to equipm		
<ul> <li>— spraying in o</li> </ul>	g of warm or hot formulations (> 45 °C) pen air, with limited or only natural vent		working halls) and spraying with high
	ms, elastomers) r uses with similar exposure through the	e dermal and/or	
inhalation route 5. Training elem			
(a) general trair	ing, including on-line training, on:		
<ul> <li>chemistry of</li> <li>toxicity hazar</li> </ul>	diisocyanates ds (including acute toxicity)		
- exposure to	liisocyanates		
	exposure limit values tion can develop		
— odour as indi			
	f volatility for risk	a vanataa	
— viscosity, terr — personal hyg	perature, and molecular weight of diiso ene	Cydnates	
— personal prot	ective equipment needed, including pra	ctical instructions for its correc	t use and its limitations
	l contact and inhalation exposure n to application process used		
	lation protection scheme		
<ul> <li>ventilation</li> </ul>			
	kages, maintenance		
<ul> <li>discarding er</li> <li>protection of</li> </ul>			
<ul> <li>identification</li> </ul>	of critical handling stages		
— specific natio — behaviour-ba	nal code systems (if applicable)		
	or documented proof that training has be	een successfully completed	
(b) intermediate	e level training, including on-line training		
<ul> <li>additional be</li> <li>maintenance</li> </ul>	naviour-based aspects		



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# **PU ADHESIVE SEALANT**

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SECT	Ion 15: Regui	LATORY INFORMATION (contin	ued)	
	<ul> <li>risk in relation</li> <li>certification o</li> <li>(c) advanced tra</li> <li>any additional</li> <li>spraying outsi</li> <li>open handling</li> <li>certification o</li> <li>6. The training s</li> <li>Member States r</li> <li>(s), as long as th</li> <li>7. The supplier r</li> <li>courses pursuan</li> <li>are supplied. The</li> <li>and design.</li> <li>8. The employer</li> <li>training shall be</li> <li>9. Member States</li> <li>(a) any establish</li> <li>diisocyanates for</li> <li>(b) the number or</li> <li>relation to diisoci</li> <li>(c) national expor</li> <li>(d) information a</li> <li>10. This restriction</li> <li>workplace.</li> <li>Contains more the</li> <li>homologues by the</li> <li>December 2010</li> <li>Shall not be used</li> <li>ornamental and</li> <li>and ashtrays,</li> <li>tricks and joke</li> <li>games for one</li> </ul>	e existing safety instructions in to application process used or documented proof that training has aining, including on-line training, on: al certification needed for the specific side a spraying booth ig of hot or warm formulations (> 45 or documented proof that training has shall comply with the provisions set b may implement or continue to apply the minimum requirements set out in referred to in point (b) of paragraph 2 at to paragraphs 4 and 5 in the officia ne training shall take into consideratio r or self-employed shall document the e renewed at least every five years. es shall include in their reports pursua hed training requirements and other r preseen in national law of cases of reported and recognised of cyanates iosure limits for diisocyanates, if there about enforcement activities related to ion shall apply without prejudice to of than 0.1 % of 4,4 ´-methylenedipheny weight. This product may not be dist of unless the packaging contains protected at in: rticles intended to produce light or co	uses covered °C) is been successfully completed y the Member State in which the their own national requirements for paragraphs 4 and 5 are met. 2 shall ensure that the recipient is 1 language(s) of the Member State n the specificity of the products s e successful completion of the trait ant to Article 117(1) the following risk management measures relate occupational asthma and occupation e are any to this restriction. ther Union legislation on the protect A diisocyanate, 4,4 ´-methylenedip ributed in its present form for firsi- ctive gloves meeting the provision lour effects by means of different intended to be used as such, ever	te(s) where the substance(s) or mixture(s) supplied, including composition, packaging, ining referred to in paragraphs 4 and 5. The g information: ed to the industrial and professional uses of tional respiratory and dermal diseases in ection of safety and health of workers at the phenyl diisocyanate, isomers and st-time sale to the general public after 27th hs of Regulation (EU) 2016/425.
		sions in terms of protecting peop ded to use the information included in		for conducting workplace-specific risk
	assessments in oproduct.	order to establish the necessary risk		dling, use, storage and disposal of this
	Other legislation			
	i ne product cou	uld be affected by sectorial legislation		
	Chemical safet			

# SECTION 16: OTHER INFORMATION \*\*

## Legislation related to safety data sheets:

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

-adds-

Safety data sheet

This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

# PU ADHESIVE SEALANT

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SECTION 16: OTHE	R INFORMATION ** (continued)		
<ul> <li>New declare</li> <li>Titanium</li> <li>Removed su</li> <li>Phosphor</li> <li>Reaction</li> </ul>	dioxide (aerodynamic diameter $\leq 10 \ \mu m$ ) bstances ic acid (7664-38-2) mass of ethylbenzene and m-xylene and (EC) No 1272/2008 (SECTION 2, SECTIC	) (13463-67-7) p-xylene	
<ul> <li>Precautional</li> <li>Supplement</li> </ul>	ry statements ary information FORMATION (SECTION 14):		
	egislative phrases mentioned in sect	ion 2:	
H334: May caus	se allergy or asthma symptoms or breath	ing difficulties if inhaled.	
	egislative phrases mentioned in sect licated do not refer to the product itself;		oformative purposes and refer to the
	onents which appear in section 3	arey are present merciy for in	instructive purposes and refer to the
CLP Regulatio	n (EC) No 1272/2008:		
Acute Tox. 4: H	312+H332 - Harmful in contact with skin 332 - Harmful if inhaled.		
Asp. Tox. 1: H3	<ul> <li>3: H412 - Harmful to aquatic life with lo</li> <li>04 - May be fatal if swallowed and enters</li> <li>Suspected of causing cancer (Inhalation</li> </ul>	s airways.	
Carc. 2: H351 -	Suspected of causing cancer.	,.	
Flam. Liq. 2: H2	19 - Causes serious eye irritation. 225 - Highly flammable liquid and vapour. 226 - Flammable liquid and vapour.		
Resp. Sens. 1:   Skin Irrit. 2: H3 Skin Sens. 1: H	H334 - May cause allergy or asthma sym 15 - Causes skin irritation. 317 - May cause an allergic skin reaction	•	
STOT RE 2: H3 STOT SE 3: H3	<ul> <li>73 - May cause damage to organs throug</li> <li>73 - May cause damage to organs throug</li> <li>85 - May cause respiratory irritation.</li> <li>36 - May cause drowsiness or dizziness.</li> </ul>		
Classification	procedure:		
Resp. Sens. 1: (	Calculation method		
	-		ct and to facilitate their comprehension and
•	ographical sources:		
http://echa.euro http://eur-lex.eu			
Abbreviations	and acronyms:		
IMDG: Internati	agreement concerning the international onal maritime dangerous goods code onal Air Transport Association	carriage of dangerous goods	by road
ICAO: Internation	onal Civil Aviation Organisation		
BOD5: 5day bio	Oxygen Demand chemical oxygen demand		
BCF: Bioconcen LD50: Lethal Do	ose 50		
LC50: Lethal Co			
LogPOW: Octan	concentration 50 olwater partition coefficient		
UFI: unique for	pefficient of organic carbon mula identifier		
	onal Agency for Research on Cancer		

\*\* Changes with regards to the previous version

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The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -