

According to 1907/2006/EC (REACH), 2015/830/EU

### POLIURETANOWA MASA KLEJĄCO-USZCZELNIAJĄCA - ONE-COMPONENT POLYURETHANE ADHESIVE SEALANT

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier: POLIURETANOWA MASA KLEJĄCO-USZCZELNIAJĄCA - ONE-COMPONENT POLYURETHANE ADHESIVE

**SEALANT** 

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

Relevant uses: Polyurethane sealing agent.

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet:

Agencia Handlowa "BOLL" Woiciech Dalewski Spółka Jawna

ul. Chemiczna 3

65-713 Zielona Góra - Polska

Phone.: 68 451 99 99 - Fax: 68 451 99 00

technolog@boll.pl

1.4 Emergency telephone number:

### SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture:

### CLP Regulation (EC) No 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Eye Irrit. 2: Eye irritation, Category 2, H319

Resp. Sens. 1: Sensitisation, respiratory, Category 1, H334

Skin Sens. 1: Sensitisation, skin, Category 1, H317

### 2.2 Label elements:

### CLP Regulation (EC) No 1272/2008:

### Danger



### **Hazard statements:**

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

### **Precautionary statements:**

P261: Avoid breathing dust/fume/gas/mist/vapours/spray

P280: Wear protective gloves P284: Wear respiratory protection

P302+P352: IF ON SKIN: Wash with plenty of water

P304+P312: IF INHALED: Call a POISON CENTER/doctor if you feel unwell

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively

### **Supplementary information:**

EUH204: Contains isocyanates. May produce an allergic reaction

Contains 2-octyl-2H-isothiazol-3-one, Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

### Additional Labelling (Annex XVII, REACH):

Persons already sensitised to diisocyanates may develop allergic reactions when using this product.

Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

### 2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substance:

Non-applicable

### 3.2 Mixture:

Chemical description: adhesive containing polyurethane prepolymer based on methylene diphenyl isocyanate

**Components:** 

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

	Identification		Chemical name/Classification	Concentration		
CAS:	9002-86-2	Polyvinyl chloride(1)	Not classified			
EC: Index: REACH:	Non-applicable Non-applicable Non-applicable	Regulation 1272/2008		25 - <50 %		
CAS:	1330-20-7	Xylene <sup>(1)</sup>	ATP CLP00			
	215-535-7 601-022-00-9 01-2119488216-32- XXXX	Regulation 1272/2008	Acute Tox. 4: H312+H332; Flam. Liq. 3: H226; Skin Irrit. 2: H315 - Warning	4 - <7 %		
CAS:	13463-67-7	Titanium dioxide(1)	Not classified			
	236-675-5 Non-applicable 01-2119489379-17- XXXX	Regulation 1272/2008		<5 %		
CAS: EC:	1305-78-8	Calcium oxide(1)	Self-classified			
Index:	215-138-9 Non-applicable 01-2119475325-36- XXXX	Regulation 1272/2008	Eye Dam. 1: H318; Skin Irrit. 2: H315; STOT SE 3: H335 - Danger	<2 %		
CAS:	100-41-4	Ethylbenzene(1)	ATP ATP06			
Index: REACH:	202-849-4 601-023-00-4 01-2119489370-35- XXXX	Regulation 1272/2008	Acute Tox. 4: H332; Asp. Tox. 1: H304; Flam. Liq. 2: H225; STOT RE 2: H373 - Danger	<2 %		
CAS:	Non-applicable	Hydrocarbons, C11-0	C14,n-alkanes, isoalkanes, cyclics, <2% aromatics(1) Self-classified			
	926-141-6 Non-applicable 01-2119456620-43- XXXX	Regulation 1272/2008	Asp. Tox. 1: H304; EUH066 - Danger	<2 %		
CAS:	1305-62-0	Calcium dihydroxide	(1) Self-classified			
	215-137-3 Non-applicable 01-2119475151-45- XXXX	Regulation 1272/2008	Eye Dam. 1: H318; Skin Irrit. 2: H315; STOT SE 3: H335 - Danger	<1 %		
CAS:	1333-86-4	Carbon black(1)	Not classified			
	215-609-9 Non-applicable Non-applicable	Regulation 1272/2008		<0,5 %		
CAS:	101-68-8	4,4´-methylenedipho	enyl diisocyanate <sup>(1)</sup> ATP CLP00			
	202-966-0 615-005-00-9 01-2119457014-47- XXXX	Regulation 1272/2008	Acute Tox. 4: H332; Carc. 2: H351; Eye Irrit. 2: H319; Resp. Sens. 1: H334; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT RE 2: H373; STOT SE 3: H335 - Danger	<0,5 %		
CAS: EC:	Non-applicable Non-applicable	Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl  1,2,2,6,6-pentamethyl-4-piperidyl sebacate(1)				
Index:	Non-applicable Non-applicable	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Skin Sens. 1: H317 - Warning	<0,5 %		
CAS:	26530-20-1	2-octyl-2H-isothiazo	I-3-one <sup>(1)</sup> ATP CLP00			
	247-761-7 613-112-00-5 01-2120768921-45- XXXX	Regulation 1272/2008	Acute Tox. 3: H311+H331; Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Skin Corr. 1B: H314; Skin Sens. 1: H317 - Danger	<0,1 %		
			I.			

 $<sup>^{(1)}</sup>$  Voluntarily-listed substance failing to meet any of the criteria set out in Regulation (EU) No. 2015/830

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

### Other information:

Identification	Specific concentration limit
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

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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

Identification	Specific concentration limit
2-octyl-2H-isothiazol-3-one CAS: 26530-20-1 EC: 247-761-7	% (w/w) >=0,05: Skin Sens. 1 - H317

### **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:

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case removal could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS for the product.

### By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

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

Acute and delayed effects are indicated in sections 2 and 11.

### 4.3 Indication of any immediate medical attention and special treatment needed:

Non-applicable

### SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media:

Product is non-flammable under normal conditions of storage, manipulation and use, but the product contains flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED to use full jet water as an extinguishing agent.

### 5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

### 5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

### **Additional provisions:**

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures:

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### SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Destroy any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

### 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:

See sections 8 and 13.

### **SECTION 7: HANDLING AND STORAGE**

### 7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

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. Avoid splashes and pulverizations. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

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.: 5 °C

Maximum Temp.: 20 °C

Maximum time: 24 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

	Identification	Environmental 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>
Calcium oxide		IOELV (8h)		1 mg/m³
CAS: 1305-78-8	EC: 215-138-9	IOELV (STEL)		4 mg/m <sup>3</sup>
Ethylbenzene		IOELV (8h)	100 ppm	442 mg/m <sup>3</sup>

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

Identification	Er	vironmental limits	
CAS: 100-41-4	IOELV (STEL)	200 ppm	884 mg/m <sup>3</sup>
Calcium dihydroxide	IOELV (8h)		1 mg/m³
CAS: 1305-62-0 EC: 215-137-3	IOELV (STEL)		4 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	180 mg/kg	Non-applicable
EC: 215-535-7	Inhalation	289 mg/m <sup>3</sup>	289 mg/m <sup>3</sup>	77 mg/m³	Non-applicable
Titanium dioxide	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 13463-67-7	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 236-675-5	Inhalation	Non-applicable	Non-applicable	Non-applicable	10 mg/m <sup>3</sup>
Calcium oxide	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 1305-78-8	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 215-138-9	Inhalation	Non-applicable	4 mg/m³	Non-applicable	1 mg/m³
Ethylbenzene	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 100-41-4	Dermal	Non-applicable	Non-applicable	180 mg/kg	Non-applicable
EC: 202-849-4	Inhalation	Non-applicable	293 mg/m <sup>3</sup>	77 mg/m³	Non-applicable
Calcium dihydroxide	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 1305-62-0	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 215-137-3	Inhalation	Non-applicable	4 mg/m³	Non-applicable	1 mg/m³
Carbon black	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 1333-86-4	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 215-609-9	Inhalation	Non-applicable	Non-applicable	2 mg/m <sup>3</sup>	2 mg/m³
4,4´-methylenediphenyl diisocyanate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 101-68-8	Dermal	50 mg/kg	Non-applicable	Non-applicable	Non-applicable
EC: 202-966-0	Inhalation	0,1 mg/m <sup>3</sup>	0,1 mg/m <sup>3</sup>	0,05 mg/m <sup>3</sup>	0,05 mg/m <sup>3</sup>

### **DNEL (General population):**

		Short e	Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local	
Xylene	Oral	Non-applicable	Non-applicable	1,6 mg/kg	Non-applicable	
CAS: 1330-20-7	Dermal	Non-applicable	Non-applicable	108 mg/kg	Non-applicable	
EC: 215-535-7	Inhalation	Non-applicable	Non-applicable	14,8 mg/m <sup>3</sup>	Non-applicable	
Titanium dioxide	Oral	Non-applicable	Non-applicable	700 mg/kg	Non-applicable	
CAS: 13463-67-7	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable	
EC: 236-675-5	Inhalation	Non-applicable	Non-applicable	Non-applicable	Non-applicable	
Calcium oxide	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable	
CAS: 1305-78-8	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable	
EC: 215-138-9	Inhalation	Non-applicable	4 mg/m³	Non-applicable	1 mg/m³	
Ethylbenzene	Oral	Non-applicable	Non-applicable	1,6 mg/kg	Non-applicable	
CAS: 100-41-4	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable	
EC: 202-849-4	Inhalation	Non-applicable	Non-applicable	15 mg/m <sup>3</sup>	Non-applicable	
Calcium dihydroxide	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable	
CAS: 1305-62-0	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable	
EC: 215-137-3	Inhalation	Non-applicable	4 mg/m³	Non-applicable	1 mg/m³	
4,4´-methylenediphenyl diisocyanate	Oral	20 mg/kg	Non-applicable	Non-applicable	Non-applicable	
CAS: 101-68-8	Dermal	25 mg/kg	Non-applicable	Non-applicable	Non-applicable	
EC: 202-966-0	Inhalation	0,05 mg/m <sup>3</sup>	0,05 mg/m <sup>3</sup>	0,025 mg/m <sup>3</sup>	0,025 mg/m <sup>3</sup>	

PNEC:

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

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
Titanium dioxide	STP	100 mg/L	Fresh water	0,127 mg/L
CAS: 13463-67-7	Soil	100 mg/kg	Marine water	1 mg/L
EC: 236-675-5	Intermittent	0,61 mg/L	Sediment (Fresh water)	1000 mg/kg
	Oral	1667 g/kg	Sediment (Marine water)	100 mg/kg
Calcium oxide	STP	2,27 mg/L	Fresh water	0,37 mg/L
CAS: 1305-78-8	Soil	817,4 mg/kg	Marine water	0,24 mg/L
EC: 215-138-9	Intermittent	0,37 mg/L	Sediment (Fresh water)	Non-applicable
	Oral	Non-applicable	Sediment (Marine water)	Non-applicable
Ethylbenzene	STP	9,6 mg/L	Fresh water	0,1 mg/L
CAS: 100-41-4	Soil	2,68 mg/kg	Marine water	0,01 mg/L
EC: 202-849-4	Intermittent	0,1 mg/L	Sediment (Fresh water)	13,7 mg/kg
	Oral	20 g/kg	Sediment (Marine water)	1,37 mg/kg
Calcium dihydroxide	STP	3 mg/L	Fresh water	0,49 mg/L
CAS: 1305-62-0	Soil	1080 mg/kg	Marine water	0,32 mg/L
EC: 215-137-3	Intermittent	0,49 mg/L	Sediment (Fresh water)	Non-applicable
	Oral	Non-applicable	Sediment (Marine water)	Non-applicable
Carbon black	STP	Non-applicable	Fresh water	5 mg/L
CAS: 1333-86-4	Soil	Non-applicable	Marine water	5 mg/L
EC: 215-609-9	Intermittent	Non-applicable	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.- General security and hygiene measures in the work place

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. 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

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory respiratory tract protection	Filter mask for gases and vapours	CAT III	EN 405:2001+A1:2009	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

### C.- Specific protection 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 damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420:2003+A1:2009 and EN ISO 374-1:2016

"As the product is a mixture of several substances, the resistance of the glove material can not be predicted in advance with total reliability and has therefore to be checked prior to the application"

D.- Ocular and facial protection

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# ROLL

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

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory face protection	Panoramic glasses against splash/projections.	CATII	EN 166:2001 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

### E.- Body protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
	Work clothing	CATI		Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.
	Anti-slip work shoes	CAT II	EN ISO 20347:2012	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 20345:2012 y EN 13832-1:2007

### F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
<b>-3</b>	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	<b>⊢</b>	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Emergency shower		Eyewash stations	

### **Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES 9.1 Information on basic physical and chemical properties: For complete information see the product datasheet. **Appearance:** Liquid Physical state at 20 °C: Appearance: Paste Colour: White Odour: Soft Odour threshold: Non-applicable \* Volatility: Boiling point at atmospheric pressure: 137 °C Vapour pressure at 20 °C: 720 Pa Vapour pressure at 50 °C: 3837,29 Pa (3,84 kPa) Evaporation rate at 20 °C: Non-applicable \* **Product description:** Density at 20 °C: 1160 kg/m<sup>3</sup> Relative density at 20 °C: 1,16 Dynamic viscosity at 20 °C: Non-applicable \* Kinematic viscosity at 20 °C: Non-applicable \* Kinematic viscosity at 40 °C: >20,5 cSt Concentration: Non-applicable \* \*Not relevant due to the nature of the product, not providing information property of its hazards.

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### 9: PHYSICAL AND CHEMICAL PROPERTIES (continued

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: Insoluble in water Decomposition temperature: Non-applicable \* Melting point/freezing point: Non-applicable \*

Explosive properties: Non-applicable \*

Oxidising properties: Non-applicable \*

Flammability:

Flash Point: 40 - 55 °C Flammability (solid, gas): Non-applicable \* 200 °C Autoignition temperature:

Lower flammability limit: Non-applicable \* Upper flammability limit: Non-applicable \*

**Explosive:** 

Lower explosive limit: Non-applicable \* Upper explosive limit: Non-applicable \*

9.2 Other information:

> Surface tension at 20 °C: Non-applicable \* Refraction index: Non-applicable \*

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

### 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 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	Avoid direct impact	Precaution	Precaution	Avoid direct impact

### 10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Can react violently	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 (CO2), carbon monoxide and other organic compounds.

### SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects:



According to 1907/2006/EC (REACH), 2015/830/EU

### POLIURETANOWA MASA KLEJĄCO-USZCZELNIAJĄCA - ONE-COMPONENT POLYURETHANE ADHESIVE SEALANT

### SECTION 11: TOXICOLOGICAL INFORMATION (continued)

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, however, it contains substances classified as dangerous 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 dangerous 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 dangerous for inhalation. 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 dangerous for this effect. 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 dangerous for skin contact. For more information see section 3.
  - Contact with the eyes: Produces eye damage after contact.
- 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: Polyvinyl chloride (3); Xylene (3); Titanium dioxide (2B); Ethylbenzene (2B); Carbon black (2B); 4,4′-methylenediphenyl diisocyanate (3)
  - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous 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 dangerous for this effect. For more information see section 3.
- E- Sensitizing effects:
  - Respiratory: Prolonged exposure can result in specific respiratory hypersensitivity.
  - Cutaneous: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.
- F- Specific target organ toxicity (STOT) single exposure:

Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation. For more information see section 3.

- G- Specific target organ toxicity (STOT)-repeated exposure:
  - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met. However, it does contain substances which are classified as dangerous due to repetitive exposure. For more information see
  - Skin: 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.
- H- Aspiration hazard:

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

### Other information:

Non-applicable

### Specific toxicology information on the substances:

Identification	Acut	Genus	
Polyvinyl chloride	LD50 oral	>2000 mg/kg	
CAS: 9002-86-2	LD50 dermal	>2000 mg/kg	
EC: Non-applicable	LC50 inhalation	>5 mg/L (4 h)	

According to 1907/2006/EC (REACH), 2015/830/EU

### POLIURETANOWA MASA KLEJĄCO-USZCZELNIAJĄCA - ONE-COMPONENT POLYURETHANE ADHESIVE SEALANT

### SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Identification	A	Acute toxicity	
Xylene	LD50 oral	2100 mg/kg	Rat
CAS: 1330-20-7	LD50 dermal	1100 mg/kg (ATEi)	Rat
EC: 215-535-7	LC50 inhalation	11 mg/L (4 h) (ATEi)	
Titanium dioxide	LD50 oral	10000 mg/kg	Rat
CAS: 13463-67-7	LD50 dermal	10000 mg/kg	Rabbit
EC: 236-675-5	LC50 inhalation	>5 mg/L (4 h)	
Calcium oxide	LD50 oral	>2000 mg/kg	
CAS: 1305-78-8	LD50 dermal	>2000 mg/kg	
EC: 215-138-9	LC50 inhalation	>5 mg/L (4 h)	
Ethylbenzene	LD50 oral	3500 mg/kg	Rat
CAS: 100-41-4	LD50 dermal	15354 mg/kg	Rabbit
EC: 202-849-4	LC50 inhalation	17,2 mg/L (4 h)	Rat
Hydrocarbons, C11-C14,n-alkanes, isoalkanes, cyclics, <2% aromatics	LD50 oral	>2000 mg/kg	
CAS: Non-applicable	LD50 dermal	>2000 mg/kg	
EC: 926-141-6	LC50 inhalation	>20 mg/L (4 h)	
Calcium dihydroxide	LD50 oral	7340 mg/kg	Rat
CAS: 1305-62-0	LD50 dermal	>2000 mg/kg	
EC: 215-137-3	LC50 inhalation	>5 mg/L	
Carbon black	LD50 oral	>2000 mg/kg	
CAS: 1333-86-4	LD50 dermal	>2000 mg/kg	
EC: 215-609-9	LC50 inhalation	>5 mg/L	
4,4´-methylenediphenyl diisocyanate	LD50 oral	7616 mg/kg	Rat
CAS: 101-68-8	LD50 dermal	10000 mg/kg	Rabbit
EC: 202-966-0	LC50 inhalation	>5 mg/L	
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	LD50 oral	>2000 mg/kg	
CAS: Non-applicable	LD50 dermal	>2000 mg/kg	
EC: Non-applicable	LC50 inhalation	Non-applicable	
2-octyl-2H-isothiazol-3-one	LD50 oral	>2000 mg/kg	
CAS: 26530-20-1	LD50 dermal	>2000 mg/kg	
EC: 247-761-7	LC50 inhalation	>20 mg/L	

### SECTION 12: ECOLOGICAL INFORMATION

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

### 12.1 Toxicity:

Identification		Acute toxicity	Species	Genus
Xylene	LC50	13.5 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 1330-20-7	EC50	3.4 mg/L (48 h)	Ceriodaphnia dubia	Crustacean
EC: 215-535-7	EC50	10 mg/L (72 h)	Skeletonema costatum	Algae
Calcium oxide	LC50	1070 mg/L (96 h)	Cyprinus carpio	Fish
CAS: 1305-78-8	EC50	Non-applicable		
EC: 215-138-9	EC50	Non-applicable		
Ethylbenzene	LC50	42.3 mg/L (96 h)	Pimephales promelas	Fish
CAS: 100-41-4	EC50	75 mg/L (48 h)	Daphnia magna	Crustacean
EC: 202-849-4	EC50	63 mg/L (3 h)	Chlorella vulgaris	Algae
Calcium dihydroxide	LC50	50.6 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 1305-62-0	EC50	49.1 mg/L (48 h)	Daphnia magna	Crustacean
EC: 215-137-3	EC50	184.57 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
Carbon black	LC50	1000 mg/L (96 h)	Brachydanio rerio	Fish
CAS: 1333-86-4	EC50	5600 mg/L (24 h)	Daphnia magna	Crustacean
EC: 215-609-9	EC50	Non-applicable		·

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### SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Acute toxicity		Species	Genus
4,4´-methylenediphenyl diisocyanate	LC50	1000 mg/L (96 h)	Brachydanio rerio	Fish
CAS: 101-68-8	EC50	Non-applicable		
EC: 202-966-0	EC50	Non-applicable		
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	LC50	0.1 - 1 mg/L (96 h)		Fish
CAS: Non-applicable	EC50	0.1 - 1 mg/L		Crustacean
EC: Non-applicable	EC50	0.1 - 1 mg/L		Algae
2-octyl-2H-isothiazol-3-one	LC50	0.1 - 1 mg/L (96 h)		Fish
CAS: 26530-20-1	EC50	0.1 - 1 mg/L		Crustacean
EC: 247-761-7	EC50	0.1 - 1 mg/L		Algae

### 12.2 Persistence and degradability:

Identification	Degradability		Biodegradability	
Xylene	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 1330-20-7	COD	Non-applicable	Period	28 days
EC: 215-535-7	BOD5/COD	Non-applicable	% Biodegradable	88 %
Ethylbenzene	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 100-41-4	COD	Non-applicable	Period	14 days
EC: 202-849-4	BOD5/COD	Non-applicable	% Biodegradable	90 %

### 12.3 Bioaccumulative potential:

Identification		Bioaccumulation potential		
Xylene	BCF	9		
CAS: 1330-20-7	Pow Log	2.77		
EC: 215-535-7	Potential	Low		
Ethylbenzene	BCF	1		
CAS: 100-41-4	Pow Log	3.15		
EC: 202-849-4	Potential	Low		
4,4´-methylenediphenyl diisocyanate	BCF	150		
CAS: 101-68-8	Pow Log	4.51		
EC: 202-966-0	Potential	High		

### 12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
Xylene	Koc	202	Henry	524,86 Pa·m³/mol
CAS: 1330-20-7	Conclusion	Moderate	Dry soil	Yes
EC: 215-535-7	Surface tension	Non-applicable	Moist soil	Yes
Ethylbenzene	Koc	520	Henry	798,44 Pa·m³/mol
CAS: 100-41-4	Conclusion	Moderate	Dry soil	Yes
EC: 202-849-4	Surface tension	2,859E-2 N/m (25 °C)	Moist soil	Yes
4,4´-methylenediphenyl diisocyanate	Koc	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 PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

### 12.6 Other adverse effects:

Not described

SECT	SECTION 13: DISPOSAL CONSIDERATIONS						
13.1	13.1 Waste treatment methods:						
	Code	Description	Waste class (Regulation (EU) No 1357/2014)				

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### POLIURETANOWA MASA KLEJĄCO-USZCZELNIAJĄCA - ONE-COMPONENT POLYURETHANE ADHESIVE SEALANT

### SECTION 13: DISPOSAL CONSIDERATIONS (continued)

08 04 09\* waste adhesives and sealants containing organic solvents or other 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. We do not recommended disposal down the drain. 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

### Transport of dangerous goods by land:

With regard to ADR 2019 and RID 2019:

3

**14.1 UN number:** UN1139

**14.2 UN proper shipping name:** COATING SOLUTION (includes surface treatments or coatings used

for industrial or other purposes such as vehicle under coating, drum

or barrel lining)

**14.3** Transport hazard class(es): 3

Labels: 3

**14.4 Packing group:** III **14.5 Environmental hazards:** No

14.6 Special precautions for user

Special regulations: Non-applicable

Tunnel restriction code: D/E

Physico-Chemical properties: see section 9

Limited quantities: 5 I

14.7 Transport in bulk according

to Annex II of Marpol and

the IBC Code:

Non-applicable

### Transport of dangerous goods by sea:

With regard to IMDG 38-16:

**14.1 UN number:** UN1139

**14.2 UN proper shipping name:** COATING SOLUTION (includes surface treatments or coatings used

for industrial or other purposes such as vehicle under coating, drum

or barrel lining)

**14.3** Transport hazard class(es): 3

Labels: 3

14.4 Packing group: III

**14.5 Environmental hazards:** No

14.6 Special precautions for user

Special regulations: 955
EmS Codes: F-E, S-E
Physico-Chemical properties: see section 9

Limited quantities: 5 L

Segregation group: Non-applicable **14.7 Transport in bulk according** Non-applicable

to Annex II of Marpol and

the IBC Code:

Transport of dangerous goods by air:

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According to 1907/2006/EC (REACH), 2015/830/EU

### POLIURETANOWA MASA KLEJĄCO-USZCZELNIAJĄCA - ONE-COMPONENT POLYURETHANE ADHESIVE SEALANT

### SECTION 14: TRANSPORT INFORMATION (continued)

With regard to IATA/ICAO 2019:



**14.1 UN number:** UN1139

**14.2 UN proper shipping name:** COATING SOLUTION (includes surface treatments or coatings used

for industrial or other purposes such as vehicle under coating, drum

or barrel lining)

14.3 Transport hazard class(es): 3

Labels: 3 **14.4 Packing group:** III

**14.5 Environmental hazards:** N

14.6 Special precautions for user

Physico-Chemical properties: see section 9

14.7 Transport in bulk according to Annex II of Marpol and

the IBC Code:

Non-applicable

### SECTION 15: REGULATORY INFORMATION

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

Regulation (EC) No 528/2012: contains a preservative to protect the initial properties of the treated article. Contains 2-octyl-2H-isothiazol-3-one.

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: Calcium oxide (Product-type 2, 3); Calcium dihydroxide (Product-type 2, 3); 2-octyl-2H-isothiazol-3-one (Product-type 6, 7, 8, 9, 10, 11, 13)

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 ....):

Contains more than 0.1 % of 4,4´-methylenediphenyl diisocyanate by weight. This product may not be distributed in its present form for first-time sale to the general public after 27th December 2010 unless the packaging contains protective gloves meeting the provisions of European Council Directive 89/686/CEE.

### Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

### Other legislation:

The product could be affected by sectorial legislation

### 15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

### **SECTION 16: OTHER INFORMATION**

### Legislation related to safety data sheets:

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 (Regulation (EC) No 2015/830)

### ${\bf Modifications\ related\ to\ the\ previous\ Safety\ Data\ Sheet\ which\ concerns\ the\ ways\ of\ managing\ risks.:}$

Non-applicable

### Texts of the legislative phrases mentioned in section 2:

H319: Causes serious eye irritation

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled

H317: May cause an allergic skin reaction

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### POLIURETANOWA MASA KLEJĄCO-USZCZELNIAJĄCA - ONE-COMPONENT POLYURETHANE ADHESIVE SEALANT

### SECTION 16: OTHER INFORMATION (continued

### Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

### CLP Regulation (EC) No 1272/2008:

Acute Tox. 3: H311+H331 - Toxic in contact with skin or if inhaled

Acute Tox. 4: H302 - Harmful if swallowed

Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled

Acute Tox. 4: H332 - Harmful if inhaled

Aquatic Acute 1: H400 - Very toxic to aquatic life

Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects

Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways

Carc. 2: H351 - Suspected of causing cancer Eye Dam. 1: H318 - Causes serious eye damage Eye Irrit. 2: H319 - Causes serious eye irritation Flam. Liq. 2: H225 - Highly flammable liquid and vapour Flam. Liq. 3: H226 - Flammable liquid and vapour

Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage

Skin Irrit. 2: H315 - Causes skin irritation

Skin Sens. 1: H317 - May cause an allergic skin reaction

STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure

STOT SE 3: H335 - May cause respiratory irritation

### Classification procedure:

Eye Irrit. 2: Calculation method Resp. Sens. 1: Calculation method Skin Sens. 1: Calculation method

### Advice related to training:

Minimal training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

### Principal bibliographical sources:

http://echa.europa.eu http://eur-lex.europa.eu

### **Abbreviations and acronyms:**

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

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor LD50: Lethal Dose 50 LC50: Lethal Concentration 50 EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient Koc: Partition coefficient of organic carbon

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.