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Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.12.2022

Version number 5 (replaces version 4)

Revision: 07.12.2022

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

1.1 Product identifier Trade name PU Wood Substitute

Article number: 2386

1.2 Relevant identified uses of the substance or mixture and uses advised against Product category PC9b Fillers, putties, plasters, modelling clay **Technical function** Resins (prepolymers

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Remmers GmbH Bernhard-Remmers-Str. 13 D-49624 Löningen / Germany Mano Tel.: +49(0)5432/83-0 Fax: +49(0)5432/3985 Information department: Product Safety department: Phone: +44 (0) 1293 594 010 Email: sales@remmers.co.ukk

Remmers (UK) Limited Unit 4 , Lloyds Court Manor Royal, Crawley – West Sussex RH10 9QU fon +44 (0) 1293 594 010 fax +44 (0) 1293 594 037

1.4 Emergency telephone number:

National Poisons Information Service (NPIS): In England and Wales: NHS 111 - dial 111 In Scotland: NHS 24 - dial 111

24h-Transport Emergency Contact Phone Number: within USA and Canada: 1-800-424-9300 outside USA and Canada: 001-703-527-3887

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008

Acute Tox. 4	H332 Harmful if inhaled.
Skin Irrit. 2	H315 Causes skin irritation.
Eye Irrit. 2	H319 Causes serious eye irritation.
Resp. Sens. 1	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens. 1	H317 May cause an allergic skin reaction.
Carc. 2	H351 Suspected of causing cancer.
STOT SE 3	H335 May cause respiratory irritation.
STOT RE 2	H373 May cause damage to organs through prolonged or repeated exposure.
Aquatic Chronic 2	H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

Hazard pictograms



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Signal word Dang		niu. or page
Hazard-determining components of labelling: aromatic polyisocyanate prepolymer		
diphenylmethane-2	2,4'-diisocyanate	
4,4'-methylenediph	nenyl diisocyanate	
Hazard statement	ts	
H332 Harmful if inl	haled.	
H315 Causes skin	irritation.	
H319 Causes serie		
	allergy or asthma symptoms or breathing difficulties if inhaled.	
	an allergic skin reaction.	
H351 Suspected o		
	espiratory irritation.	
	damage to organs through prolonged or repeated exposure.	
	atic life with long lasting effects.	
Precautionary sta		
P260	Do not breathe dust/fume/gas/mist/vapours/spray.	
P273	Avoid release to the environment.	//
P280	Wear protective gloves/protective clothing/eye protection/face protection,	nearing
D200 - D250	protection.	
P302+P352	IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove co	ntaat
F300+F301+F330	lenses, if present and easy to do. Continue rinsing.	maci
P308+P313	IF exposed or concerned: Get medical advice/attention.	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	
P501	Dispose of contents/container in accordance with local/regional/national/	
1 001	international regulations.	
Additional inform	0	
EUH204 Contains	isocyanates. May produce an allergic reaction.	
	t 2023 adequate training is required before industrial or professional use.	
2 3 Other hazards		

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture of the substances listed below with harmless additions.

Dangerous components [% w/w]:		
CAS: 99784-49-3	aromatic polyisocyanate	

CAS: 99784-49-3	aromatic polyisocyanate prepolymer	≥50-≤70%	
EC number: 807-385-1	Resp. Sens. 1, H334; STOT RE 2, H373; Aquatic		
	Chronic 2, H411; Acute Tox. 4, H332; Skin Irrit. 2, H315;		
	Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3,		
	H335		

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	(Cd	ontd. of page 2)
CAS: 5873-54-1	diphenylmethane-2,4'-diisocyanate	≥20-<30%
EINECS: 227-534-9	Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373;	
Index number: 615-005-00-9	Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2,	
Reg.nr.: 01-2119480143-45-	H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204	
	Specific concentration limits:	
	Eye Irrit. 2; H319: C ≥ 5 %	
	Skin Irrit. 2; H315: C ≥ 5 %	
	Resp. Sens. 1; H334: C ≥ 0.1 %	
	STOT SE 3; C ≥ 5 %	
CAS: 101-68-8	4,4'-methylenediphenyl diisocyanate	≥10-<20%
EINECS: 202-966-0	Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373;	
Index number: 615-005-00-9	Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2,	
Reg.nr.: 01-2119457014-47-	H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204	
XXXX	Specific concentration limits:	
	Eye Irrit. 2; H319: C ≥ 5 %	
	Skin Irrit. 2; H315: C ≥ 5 %	
	Resp. Sens. 1; H334: C ≥ 0.1 %	
	STOT SE 3; C ≥ 5 %	

Additional information For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation

Supply fresh air and call for doctor for safety reasons.

In case of unconsciousness bring patient into stable side position for transport.

After skin contact

Treat affected areas of skin with cotton wool or cellulose. Then wash and rinse thoroughly with water and a mild cleaning agent.

Wash immediately with water and soap and rinse thoroughly.

After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor. **After swallowing** Call a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents Fire-extinguishing powder Foam Carbon dioxide Use fire fighting measures that suit the environment. 5.2 Special hazards arising from the substance or mixture May be released in case of fire Carbon monoxide (CO) Nitrogen oxides (NOx) Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.: Hydrogen cyanide (HCN) Formation of poisonous gases during heating or in fires. 5.3 Advice for firefighters **Protective equipment:** Wear self-contained breathing apparatus. Wear full protective suit. Put on breathing apparatus.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Put on breathing apparatus.

6.2 Environmental precautions:

Do not allow to enter the ground/soil.

Do not allow product to reach sewage system or water bodies.

Inform responsible authorities in case product reaches bodies of water or sewage system.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

6.4 Reference to other sections

See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for information on disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaust in workplaces.

Avoid the formation of aerosols.

Information about protection against explosions and fires: Keep breathing equipment ready.

7.2 Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and containers: No special requirements. Information on storage in a common storage facility: none Further information about storage conditions: Keep container tightly closed.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with limit values that require monitoring at the workplace:
CAS: 5873-54-1 diphenylmethane-2,4'-diisocyanate
WEL Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO
CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate
WEL Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO
Ingredients with biological limit values:
CAS: 5873-54-1 diphenylmethane-2,4'-diisocyanate
BMGV 1 µmol creatinine/mol Medium: urine
Sampling time: At the end of the period od exposure Parameter: isocyanate-derived diamine
CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate
BMGV 1 μmol creatinine/mol Medium: urine Sampling time: At the end of the period od exposure Parameter: isocyanate-derived diamine
Additional information: The lists that were valid during compilation were used as a basis.

8.2 Exposure controls

Appropriate engineering controls No further data; see item 7. Individual protection measures, such as personal protective equipment General protective and hygienic measures Do not eat, drink or smoke while working.

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Use skin protection cream for preventive skin protection. Keep away from food, beverages and animal feed. Immediately remove soiled, saturated clothing. Wash hands before pauses and after work. Store protective clothing separately. Avoid contact with eyes and skin.

The following indication regarding the personal protective equipment are to be considered as suggestions. The selection of the necessary personal protective equipment is to be evalutated by the employer depending on the types of operations and the local circumstances. If a risk assessment onsite shows that there is no risk for employees, the personal protective euiqment is not required or the amount of the PPE can be adpated accordingly.

Respiratory equipment:

If the solvent / dust concentration is above TLV-values, respiratory equipment admitted for this purpose must be worn.

Filter A/P2.

In case of brief exposure or low pollution load, use respiratory protection equipment with filter. In case of intensive or longer exposure, use self-contained respiratory protection equipment.

Hand protection

Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Meterial of a

Material of gloves Butyl rubber, BR

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection

Face protection

Tightly sealed safety glasses.

Body protection: Protective work clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties			
General Information			
Physical state	Fluid		
Colour:	Yellowish		
Odour:	Weak, characteristic		
Odour threshold:	Not determined.		
Melting point/freezing point:	Not determined		
Boiling point or initial boiling point and boilin	g		
range	Not determined		
Flammability	Not applicable.		
Lower and upper explosion limit			
Lower:	Not determined.		
Upper:	Not determined.		
Flash point:	> 193 °C		
Ignition temperature:	> 500 °C		
Decomposition temperature:	Not determined.		
рН	Not determined.		
Viscosity:			
Kinematic viscosity	Not determined.		

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dynamic at 20 °C:	1800 mPas
Solubility	
Water:	Not miscible or difficult to mix
Partition coefficient n-octanol/water (log value) Not determined.
Vapour pressure:	Not determined.
Density and/or relative density	
Density at 20 °C:	1.13 g/cm ³
Relative density	Not determined.
Vapour density	Not determined.
	Not determined.
9.2 Other information	
Appearance:	
Form:	Fluid
Important information on protection of health	
and environment, and on safety.	
Explosive properties:	Product is not explosive.
Solvent separation test	< 3 %
Organic solvents:	0.0 %
Change in condition	
Evaporation rate	Not determined.
•	
Information with regard to physical hazard	
classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit	
flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void
200001011000 CAPIDO1800	voiu

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if handled and stored according to specifications.

10.3 Possibility of hazardous reactions Danger of bursting

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products:

None if used properly.

None if stored properly.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity: Harmful if inhaled.

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LD/LC50 values that are relevant for classification:			
CAS: 101-	CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate		
Oral	LD50	>15,000 mg/kg (rat)	
Inhalative	LC50/4 h	~0.49 mg/l (rat)	
Skin corrosion/irritation: Causes skin irritation. Serious eye damage/irritation: Causes serious eye irritation. Sensitisation: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.			
 Germ cell mutagenicity: Based on available data, the classification criteria are not met. Carcinogenicity: Suspected of causing cancer. Reproductive toxicity: Based on available data, the classification criteria are not met. STOT-single exposure: May cause respiratory irritation. STOT-repeated exposure: May cause damage to organs through prolonged or repeated exposure. Aspiration hazard: Based on available data, the classification criteria are not met. 11.2 Information on other hazards 			
	-	ng properties nts is listed.	
SECTION	N 12: Eco	logical information	

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Remark: Toxic for fish

Additional ecological information:

General notes:

Do not allow product to reach ground water, bodies of water or sewage system. Also toxic for fish and plankton in bodies of water. Toxic for aquatic organisms

SECTION 13: Disposal considerations

Recommendation

Do not dispose of together with household garbage. Do not allow product to reach sewage system. Not hardened material must be disposed of as hazardous waste according to official regulations. Hardened product remains may be disposed of as building rubble or put into household garbage.

European waste catalogue

08 04 09* waste adhesives and sealants containing organic solvents or other hazardous substances

Uncleaned packaging:

Recommendation:

Disposal must be made according to official regulations. Packaging can be reused or recycled after cleaning.

SECTION 14: Transport information

UN3082
3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1,2-Propanediol,

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IMDG	polymer with 1,1'-methylenebis(isocyanatobenzene) and 2-methyloxirane) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1,2-Propanediol, polymer with 1,1'- methylenebis(isocyanatobenzene) and 2-
ΙΑΤΑ	methyloxirane), MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1,2-Propanediol, polymer with 1,1'- methylenebis(isocyanatobenzene) and 2- methyloxirane)
14.3 Transport hazard class(es)	
ADR	
Class	9 (M6) Miscellaneous hazardous substances and articles. 9
Label IMDG	9
Class Label	9 Miscellaneous hazardous substances and articles. 9
ΙΑΤΑ	
Class Label	9 Miscellaneous hazardous substances and articles. 9
14.4 Packing group ADR, IMDG, IATA	111
14.5 Environmental hazards:	
Marine pollutant:	Yes Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Miscellaneous hazardous substances and articles.
hazard identification number:	90
EMS Number: Stowage Category	F-A,S-F A
14.7 Maritime transport in bulk according	
IMO instruments	Not applicable.
Transport/Additional information:	Not a hazardous good according to the above regulations.
ADR	
Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
Transport category	3

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Tunnel restriction code	(-)
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1,2-PROPANEDIOL, POLYMER WITH 1,1'- METHYLENEBIS(ISOCYANATOBENZENE) AND 2- METHYLOXIRANE), 9, III

SECTION 15: Regulatory information

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

Seveso category E2 Hazardous to the Aquatic Environment

Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 56a, 56b, 74

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

National regulations

Other regulations, limitations and prohibition ordinances

From the European Committee of the Associations for varnish, printing ink and artistry paint producers - CEPE - the following information is given for isocyanate based coating materials:

Ready-to-use coating materials that contain isocyanates may have an irritating effect on mucous membranes - especially on respiratory organs - and cause hypersensitivity reactions. There is a risk of sensitization if vapours or sprayed mist are inhaled. When handling isocyanate based coating materials, all measures for solvent based coating materials must be strictly observed. Sprayed mist and vapours especially should not be inhaled.

Persons with allergies or asthma who have a tendency for respiratory tract ailments should not be allowed to work with isocyanate based coating materials.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This data is based on our present state of knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally valid contractual relationship. Delivery specifications are found in the respective Technical Information Sheets.

Relevant phrases

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer.
- H373 May cause damage to organs through prolonged or repeated exposure.

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(Contd. of page 9) H411 Toxic to aquatic life with long lasting effects. EUH204 Contains isocyanates. May produce an allergic reaction. Classification according to Regulation (EC) No 1272/2008 Calculation method Department issuing data specification sheet: Product Safety department / EHS Date of previous version: 22.10.2020 Version number of previous version: 4 Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity - Category 4 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 Resp. Sens. 1: Respiratory sensitisation - Category 1 Skin Sens. 1: Skin sensitisation - Category 1 Carc. 2: Carcinogenicity - Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2