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Safety data sheet according to 1907/2006/EC, Article 31



Printing date 11.05.2020

Version number 7

Revision: 11.05.2020

SECTION 1: Identification of the substance/mixture and of the company/ undertaking
· 1.1 Product identifier
· Trade name: <u>illbruck PU220</u>
 MSDS code: A-I-PU220 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. Application of the substance / the mixture Glue/ Sising agent
 1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier: Tremco CPG Netherlands B.V. tremco illbruck Productie B.V. Vlietskade 1032, 4241 WC Arkel T: +31 (0) 183568000, F: +31 (0) 183568100 msds@tremco-illbruck.com
 Further information obtainable from: Tremco CPG UK Ltd tremco illbruck Ltd Coupland Road, Hindley Green, Wigan, WN2 4HT T: +44 (0) 1942251400, F: +44 (0) 1942251410 www.tremco-illbruck.co.uk, uk.info@tremco-illbruck.com 1.4 Emergency telephone number: During office hours tel.: +44 (0) 1942251400. At all other times it is recommended to call NHS 111 (England/Wales/Scotland), your local GP/pharmacist (NI), 01 809 2166 (ROI), or otherwise to contact a doctor.
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.
 • 2.2 Label elements • Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. (Contd. on page 2) GB GB GB GB GB Control of the content of th



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· Hazard pictograms	
GHS07 GHS08	
· Signal word Danger	
 Hazard statements H332 Harmful if inhaled. H315 Causes skin irritat H315 Causes serious ey H334 May cause allergy H317 May cause an alle H351 Suspected of caus H335 May cause respirat H373 May cause damage Precautionary stateme P260 Do not breat P280 Wear protete P284 In case of irr P304+P340 IF INHALEE P342+P311 If experience Supplemental informate EUH204 Contains isocy 	ion. ye irritation. o or asthma symptoms or breathing difficulties if inhaled. orgic skin reaction. sing cancer. atory irritation. ge to organs through prolonged or repeated exposure. ents athe dust/fume/gas/mist/vapours/spray. ctive gloves/protective clothing/eye protection/face protection. hadequate ventilation wear respiratory protection. D: Remove person to fresh air and keep comfortable for breathing. bing respiratory symptoms: Call a POISON CENTER/doctor. tion: anates. May produce an allergic reaction. enylmethanediisocyanate, isomers and homologues. May produce an allergic
SECTION 3: Compo	osition/information on ingredients
 3.2 Mixtures Description: Mixture of 	substances listed below with non-hazardous additions.
· Dangerous component	ts:
	diphenylmethanediisocyanate, isomers and homologues50-<75%Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox.50-<75%4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317;50-<75%STOT SE 3, H33550-<100000000000000000000000000000000000
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CAS: 9082-00-2	Ethoxylated/propoxylated glycerol 10-<20 Acute Tox. 4, H302				
CAS: 25791-96-2 NLP: 500-044-5	Glycerol, propoxylated 10-<20 Acute Tox. 4, H302				
	ne listed hazard phrases refer to section 16. owing substances are formed and released by a reaction with atmospheric humidity				
SECTION 4: Firs	t aid measures				
4.1 Description of f					
General information					
hours after the accid	ning may even occur after several hours; therefore medical observation for at least				
	ns out of danger area and lay down.				
After inhalation:	is out of danger area and lay down.				
	to be sure call for a doctor.				
	business place patient stably in side position for transportation.				
After skin contact:					
	ith water and soap and rinse thoroughly				
Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.					
After eye contact:					
	or several minutes under running water. If symptoms persist, consult a doctor.				
	Do not induce vomiting; call for medical help immediately.				
	symptoms and effects, both acute and delayed				
Harmful if inhaled.					
	piratory system and skin.				
May cause an allergi					
	r asthma symptoms or breathing difficulties if inhaled.				
May cause damage	to organs through prolonged or repeated exposure.				
Suspected of causing	g cancer.				
	Information for doctor: No further relevant information available.				
	relevant information available.				
	y immediate medical attention and special treatment needed				
No further relevant in	nformation available.				
SECTION 5: Fire	fighting measures				
5.1 Extinguishing n					
-	ing agents: Use fire extinguishing methods suitable to surrounding conditions.				
For safety reasons unsuitable extinguishing agents: Water with full jet					

For safety reasons unsuitable extinguishing agents: Water with full jet
 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

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(Contd. of page 3) Carbon monoxide (CO) Carbon dioxide (CO2) Nitrogen oxides (NOx) Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.: Hydrogen cyanide (HCN) 5.3 Advice for firefighters · Protective equipment: Wear self-contained respiratory protective device. **SECTION 6: Accidental release measures** · 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Avoid contact with the eyes and skin. Ensure adequate ventilation. • 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water. · 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 Section 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 disposal information. **SECTION 7: Handling and storage** 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Avoid contact with the eyes and skin. Avoid breathing vapours/spray. Use only in well-ventilated areas. Do not eat, drink, smoke or sniff while working. Ensure that washing facilities are available at the work place. Wear suitable protective clothing and gloves. · Information about fire - and explosion protection: The usual precautionary measures are to be adhered to when handling chemicals. • 7.2 Conditions for safe storage, including any incompatibilities · Storage: • **Requirements to be met by storerooms and receptacles:** Store only in unopened original receptacles. Information about storage in one common storage facility: Not required. • Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles. • 7.3 Specific end use(s) No further relevant information available.

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SECTION 8: Exposure controls/personal protection • Additional information about design of technical facilities: No further data; see item 7. · 8.1 Control parameters · Ingredients with limit values that require monitoring at the workplace: CAS: 9016-87-9 diphenylmethanediisocyanate, isomers and homologues WEL Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO · DNELs Long term effects CAS: 9016-87-9 diphenylmethanediisocyanate, isomers and homologues Inhalative industrial 0.05 mg/m3 (workers) (systemic and local effects) consumer 0.025 mg/m3 (general public) (systemic and local effects) Short term effects CAS: 9016-87-9 diphenylmethanediisocyanate, isomers and homologues Oral consumer 20 mg/kg/24h (consumers) (systemic effects) 50 mg/kg/24h (workers) (systemic and local effects) Dermal industrial consumer 25 mg/kg/24h (consumers) (systemic effects) 0.1 mg/m3 (workers) (systemic and local effects) Inhalative industrial consumer 0.05 mg/m3 (general public) (local effects) · PNECs CAS: 9016-87-9 diphenylmethanediisocyanate, isomers and homologues PNEC 1 mg/L (fresh water) 10 mg/L (intermittent release) 0.1 mg/L (salt water) · Additional information: The lists valid during the making were used as basis. · 8.2 Exposure controls · Personal protective equipment: General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin. Do not eat, drink, smoke or sniff while working. Wear suitable protective clothing and gloves. **Respiratory protection:** In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. (Contd. on page 6) GB



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Filter A/P2 For further guidance, please refer to HSE HSG53 "Respiratory Protective Equipment at work - A Practical Guide". • **Protection of hands:**



Protective gloves

• Material of gloves Butyl rubber, BR Recommended thickness of the material: ≥ 0.7 mm Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.4 mm

· Penetration time of glove material

For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 16523-1:2015: Level 6).

• Eye protection:



Tightly sealed goggles

Body protection:



Protective work clothing

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chemical properties		
· General Information		
· Appearance:		
Form:	Fluid	
Colour:	According to product specification	
· Odour:	Characteristic	
· Odour threshold:	Not determined.	
· pH-value:	Not determined.	
Melting point/freezing point:	Undetermined.	
· Initial boiling point and boiling rai	nge: 209.3 °C	
· Flash point:	215 °C	
· Flammability (solid, gas):	Not applicable.	
· Ignition temperature:	400 °C	
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Decomposition temperature:	Not determined.	
Auto-ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	0.1 Vol %	
Upper:	0.2 Vol %	
Vapour pressure:	Not determined.	
Density at 20 °C:	1.15 g/cm ³	
Relative density	Not determined.	
Vapour density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
water:	Immiscible / difficult to mix.	
Partition coefficient: n-octanol/water:	Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
VOC (EU)	0.5 g/l	
VOC (EC)	0.04 %	
9.2 Other information	No further relevant information available.	

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 used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- 10.6 Hazardous decomposition products:
- Formation of toxic gases is possible during heating or in case of fire.

Carbon monoxide and carbon dioxide

Nitrogen oxides (NOx)

Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:

Hydrogen cyanide (prussic acid)

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SECTION 11: Toxicological information 11.1 Information on toxicological effects Acute toxicity Harmful if inhaled. · LD/LC50 values relevant for classification: CAS: 9016-87-9 diphenylmethanediisocyanate, isomers and homologues LD50 >10,000 mg/kg (rat) Oral Dermal LD50 >10,000 mg/kg (rabbit) Inhalative LC50/4 h 1.5 mg/L (rat) CAS: 9082-00-2 Ethoxylated/propoxylated glycerol Oral LD50 >500 mg/kg (rat) Dermal LD50 >2,000 mg/kg (rabbit) CAS: 25791-96-2 Glycerol, propoxylated LD50 1,999 mg/kg (rat) Oral Primary irritant effect: · Skin corrosion/irritation Causes skin irritation. Serious eye damage/irritation Causes serious eye irritation. **Respiratory or skin sensitisation** May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. • CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) · 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. **SECTION 12: Ecological information** · 12.1 Toxicity · Aquatic toxicity: CAS: 9016-87-9 diphenylmethanediisocyanate, isomers and homologues LC0/96 h >1.000 mg/L (brachydanio rerio) EC50/24 h >1,000 mg/L (daphnia magna) (Contd. on page 9)



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CAS: 9082-00-2 Ethoxylated/propoxylated glycerol

LC50/48 h >100 mg/L (brachydanio rerio)

EC50/48 h >100 mg/L (daphnia magna)

EC50/72 h >1,000 mg/L (scenedesmus capricornutum)

• **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.

Ecotoxical effects:

CAS: 9016-87-9 diphenylmethanediisocyanate, isomers and homologues

NOEC/21 d >10 mg/L (daphnia magna)

Additional ecological information:

· General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Disposal must be made according to official regulations.

· European waste catalogue			
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances		
15 01 02	plastic packaging		
HP4	Irritant - skin irritation and eye damage		
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity		
HP7	Carcinogenic		
HP13	Sensitising		

· Uncleaned packaging:

• Recommendation: Dispose of packaging according to regulations on the disposal of packagings.

SECTION 14: Transport information

· 14.1 UN-Number

· ADR, ADN, IMDG, IATA

Void



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 · 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA 	Void	, , , , , , , , , , , , , , , , , , ,
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	Void	
 14.4 Packing group ADR, IMDG, IATA 	Void	
 · 14.5 Environmental hazards: · Marine pollutant: 	No	
· 14.6 Special precautions for user	Not applicable.	
 14.7 Transport in bulk according to Anne Marpol and the IBC Code 	ex II of Not applicable.	
· UN "Model Regulation":	Void	

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture "CLP" Regulation (EC) No 1272/2008 (OJ L 353, 31.12.2008, p.1).
 "REACH" Regulation (EC) No 1907/2006 (OJ L 396, 30.12.2006, p.1, with subsequent amendments). COMMISSION REGULATION (EU) 2015/830 of 28 May 2015. HSE EH40/2005 Workplace Exposure Limits (as amended) Guidance on the classification and assessment of waste | Technical Guidance WM3 (1st edition 2015) 2001/118/EC as regards the list of wastes 2008/98/EC on waste
 • REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- National regulations:
- · Information about limitation of use:

Employment restrictions concerning juveniles must be observed. Employment restrictions concerning pregnant and lactating women must be observed.

• Other regulations, limitations and prohibitive regulations

- Substances of very high concern (SVHC) according to REACH, Article 57 Not applicable.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H302 Harmful if swallowed.

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(Contd. of page 10) 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. **Department issuing SDS:** Prepared and verified in accordance with "REACH" Regulation (EC) No 1907/2006, Annex II, Part A, 0.2.3. • Abbreviations and acronyms: ADR: Accord européen sur le transport 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) VOC: Volatile Organic Compounds (USA, EU) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity - inhalation - 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 * * Data compared to the previous version altered. GB