illbruck

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

Printing date 16.02.2016

Version number 7

Revision: 16.02.2016

Finding date 10.02	2.2010		Revision. 10.02.2010	
SECTION dundertaking		cation of the substance/mixture	and of the company/	
· 1.1 Product ic	· 1.1 Product identifier			
· Trade name:	· Trade name: illbruck PU700			
 • 1.2 Relevant i No further rele 	 MSDS code: A-I-PU700 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 Sealant 			
 Manufacturer, tremco illbruck Vlietskade 103 T: +31 (0) 183 	 1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier: tremco illbruck Productie B.V. Vlietskade 1032, 4241 WC Arkel T: +31 (0) 183568000, F: +31 (0) 183568100 msds@tremco-illbruck.com 			
tremco illbruck Coupland Roa T: +44 (0) 194	 Further information obtainable from: 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 please contact your national poisoning centre. 			
SECTION 2	: Hazards i	dentification		
		ubstance or mixture to Regulation (EC) No 1272/2008		
Aerosol 1	H222-H229	Extremely flammable aerosol. Pressurised co	ontainer: May burst if heated.	
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		May cause allergy or asthma symptoms or br	reathing difficulties if inhaled.	
	1047			
Skin Sens. 1	H317	May cause an allergic skin reaction.		
Carc. 2	H351	Suspected of causing cancer.		
STOT SE 3 STOT RE 2	H335	May cause respiratory irritation.	and or reported evenesure	
	H373	May cause damage to organs through prolon		
	ording to Re	egulation (EC) No 1272/2008 d labelled according to the CLP regulation.	(Contd. on page 2)	

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· Hazard pictograms

GHS02 GHS07 GHS08

- · Signal word Danger
- · Contains:
- diphenylmethanediisocyanate, isomers and homologues
- Hazard statements
 - H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
- H332 Harmful if inhaled.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H317 May cause an allergic skin reaction.
- H351 Suspected of causing cancer.
- H335 May cause respiratory irritation.
- H373 May cause damage to organs through prolonged or repeated exposure.

· Precautionary statements

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P251 Do not pierce or burn, even after use.
- P284 In case of inadequate ventilation wear respiratory protection.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
- P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
- · Supplemental information:
- EUH204 Contains isocyanates. May produce an allergic reaction.
- · 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:** Active substance with propellant

· Dangerous components:		
CAS: 9016-87-9	diphenylmethanediisocyanate, isomers and homologues Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	50- <75%
CAS: 25791-96-2 NLP: 500-044-5	Glycerol, propoxylated Acute Tox. 4, H302	20- <30%
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911-815-4	tris(2-chloro-1-methylethyl)phosphate	Contd. of page 2)		
Reg.nr.: 01-2119486772-26-xxxx CAS: 115-10-6 EINECS: 204-065-8 Reg.nr.: 01-2119472128-37-xxxx	dimethyl ether Flam. Gas 1, H220; Press. Gas C, H280	5- <10%		
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27-xxxx	isobutane Flam. Gas 1, H220; Press. Gas C, H280	5- <10%		
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21-xxxx	propane Flam. Gas 1, H220; Press. Gas C, H280	1- <5%		
While curing the following subs humidity: Carbon dioxide				
SECTION 4: First aid meas	SECTION 4: First aid measures			
 After inhalation: Supply fresh air and to be sure cannot be supply fresh and the supply for summediately wash with water and limmediately remove all soiled and the supplementation be supply for several mines. After eye contact: Rinse opened eye for several mines. After swallowing: If symptoms part of supply for several mines. After swallowing: If symptoms part of supply for several mines. After supply f	e patient stably in side position for transportation. r. soap and rinse thoroughly. d contaminated clothing utes under running water. If symptoms persist, consult i persist consult doctor. and effects, both acute and delayed er relevant information available. mation available. medical attention and special treatment needed	a doctor.		
	nt larger fires with water spray or alcohol resistant foam. Extinguishing agents: Water with full jet n the substance or mixture	ontd. on page 4)		





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Hydrogen cyanide (HCN) • 5.3 Advice for firefighters	aces of other toxic gases cannot be excluded elf-contained respiratory protective device.	(Contd. of page 3) I, e.g.:	
SECTION 6: Accidental re	elease measures		
 Not required. Wear protective equipment. Kee 6.2 Environmental precaution 6.3 Methods and material for environmental precaution. Dispose contaminated material Ensure adequate ventilation. Do not flush with water or aquee 6.4 Reference to other section See Section 7 for information or 	s: Do not allow to enter sewers/ surface or g containment and cleaning up: as waste according to item 13. ous cleansing agents ns n safe handling. n personal protection equipment.		
 electric lights. Do not pierce or the Usual precautionary measures 7.2 Conditions for safe storage Storage: Requirements to be met by state Store in a cool location. Observe official regulations on set official regulations on set official regulations on set official storage in the storage i	ling tion at the workplace. th care. xplosion protection: e or any incandescent material. o not smoke. arges. from sunlight and do not expose to temperate burn, even after use. res are to be adhered to when handling cher je, including any incompatibilities orerooms and receptacles: storing packagings with pressurised containe one common storage facility: Store away for age conditions: well sealed receptacles.	nicals.	
-	SECTION 8: Exposure controls/personal protection · Additional information about design of technical facilities: No further data; see item 7. (Contd. on page 5)		
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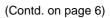
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· 8.1 Control parameters
 Ingredients with limit values that require monitoring at the workplace:
9016-87-9 diphenylmethanediisocyanate, isomers and homologues
WEL Short-term value: 0.07 mg/m ³
Long-term value: 0.02 mg/m ³ Sen; as -NCO
115-10-6 dimethyl ether
WEL Short-term value: 958 mg/m ³ , 500 ppm
Long-term value: 766 mg/m ³ , 400 ppm
Additional Occupational Exposure Limit Values for possible hazards during processing: Carbon dioxide
• Additional information: The lists valid during the making were used as basis.
· 8.2 Exposure controls
· Personal protective equipment:
 General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals.
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.
· Respiratory protection:
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. • Protection of hands:
μ.
Protective gloves
Material of 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 374 Part 3: Level 6).
· Eye protection:
Tightly sealed goggles
Body protection: Protective work clothing



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SECTION 9: Physical and chemical properties			
 9.1 Information on basic physical and chemical properties General Information 			
· Appearance: Form:	Aerosol		
Colour:	According to product specification		
· Odour:	Characteristic		
· Odour threshold:	Not determined.		
· pH-value:	Not determined.		
• Melting point/Melting range:	Not applicable, as aerosol.		
· Boiling point/Boiling range:	Not applicable, as aerosol.		
· Flash point:	-97 °C		
· Flammability (solid, gaseous):	Not applicable.		
· Ignition temperature:			
Decomposition temperature:	Not determined.		
· Self-igniting:	Product is not selfigniting.		
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.		
· Explosion limits:			
Lower:	3.0 Vol %		
Upper:	18.6 Vol %		
· Vapour pressure at 20 °C:	5200 hPa		
 Density at 20 °C: 	1.02 g/cm ³		
· Relative density	Not determined.		
· Vapour density	Not determined.		
· Evaporation rate	Not applicable.		
 Solubility in / Miscibility with 			
water:	Not miscible or difficult to mix.		
· Partition coefficient (n-octanol/wate	· Partition coefficient (n-octanol/water): Not determined.		
· Viscosity:			
Dynamic:	Not determined.		
Kinematic:	Not determined.		
· Solvent content:	· Solvent content:		
VOC (EU)	153.0 g/l		
VOC (EC)	15.00 %		
• 9.2 Other information No further relevant information available.			

SECTION 10: Stability and reactivity

• 10.1 Reactivity No further relevant information available.

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· 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: No dangerous decomposition products known.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity
- Harmful if inhaled.

· LD/LC50 values relevant for classification:

9016-87-9 diphenylmethanediisocyanate, isomers and homologues

9010-87-9	aipnenyi	methaneonsocyanate, isomers and nomologues	
Oral	al LD50 > 10000 mg/kg (rat)		
Dermal	nal LD50 > 10000 mg/kg (rabbit)		
Inhalative	e LC50/4 h 0.493 mg/L (rat)		
25791-96-	2 Glycero	I, propoxylated	
Oral	Oral LD50 > 2000 mg/kg (rat)		
Dermal	Dermal LD50 > 2000 mg/kg (rabbit)		
 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. 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 Toxic	· 12.1 Toxicity		
· Aquatic to	· Aquatic toxicity:		

9016-87-9 diphenylmethanediisocyanate, isomers and homologues

LC0/96 h > 1000 mg/L (brachydanio rerio)

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Trade name: illbruck PU700 (Contd. of page 7) EC50/24 h > 1000 mg/L (daphnia magna) NOEC/21 d > 10 mg/L (daphnia magna) 25791-96-2 Glycerol, propoxylated > 1000 mg/L (fish) LC50/96 h EC50/48 h > 1000 mg/L (daphnia magna) > 1000 mg/L (algae) EC50/72 h · 12.2 Persistence and degradability No further relevant information available. • Other information: The product is not easily biodegradable. • 12.3 Bioaccumulative potential No further relevant information available. · 12.4 Mobility in soil No further relevant information available. · Ecotoxical effects: · Other information: This product contains no substances in Annex I to Directive EC 1005/2009 concerning ozone depleting substances · 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. · European waste catalogue gases in pressure containers (including halons) containing hazardous substances 16 05 04* 08 05 01* waste isocyanates · Uncleaned packaging: · Recommendation: Disposal must be made according to official regulations. **SECTION 14: Transport information** · 14.1 UN-Number · ADR, IMDG, IATA UN1950 · 14.2 UN proper shipping name · ADR 1950 AEROSOLS

AEROSOLS

AEROSOLS, flammable

· IMDG

· IATA

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· 14.3 Transport hazard class(es)		
· ADR		
· Class	2 5F Gases.	
· Label	2.1	
· IMDG, IATA		
· Class	2.1	
· Label	2.1	
 14.4 Packing group ADR, IMDG, IATA 	Void	
14.5 Environmental hazards:		
• Marine pollutant:	No	
· 14.6 Special precautions for user	Warning: Gases.	
· Danger code (Kemler):		
 EMS Number: Stowage Code 	F-D,S-U SW1 Protected fro	m sources of boat
	SW22 For AEROS of 1 litre: Catego capacity above 1 AEROSOLS: Catego	SOLS with a maximum capacitory A. For AEROSOLS with litre: Category B. For WAST gory C, Clear of living quarters.
· Segregation Code	1 litre: Segregatior	OLS with a maximum capacity a as for class 9. Stow "separate except for division 1.4. Fo
	AEROSOLS wit	h a capacity above 1 litre
		r the appropriate subdivision (
		FE AEROSOLS: Segregation a subdivision of class 2.
 14.7 Transport in bulk according to Marpol and the IBC Code 		
· Transport/Additional information:		
• ADR		
Limited quantities (LQ)	1L	
· Excepted quantities (EQ)	Code: E0	
. Transport estadou	Not permitted as E 2	xcepted Quantity
Transport category	۷	(Contd. on page 1

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 Tunnel restriction code Remarks: 	D - Special provisions: 190, 327, 344, 625 (3.3) - Special provisions for carriage: V14 (7.2.4); CV9 CV12 (7.5.11); S2 (8.5)	
 IMDG Limited quantities (LQ) Excepted quantities (EQ) Remarks: 	1L Code: E0 Not permitted as Excepted Quantity - Special provisions: 63, 190, 277, 327, 344, 959 (3.3)	
· IATA · Remarks:	- Special provisions: A145, A167, A802 (4.4)	
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1	

SECTION 15: Regulatory information

 \cdot 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). "CHIP" SI 2009 No.716.

"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

· National regulations:

· Information about limitation of use:

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

- \cdot 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

- H220 Extremely flammable gas.
- H280 Contains gas under pressure; may explode if heated.
- H302 Harmful if swallowed.
- 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 10) 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) 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 Flam. Gas 1: Flammable gases, Hazard Category 1 Aerosol 1: Flammable aerosols, Hazard Category 1 Press. Gas C: Gases under pressure: Compressed gas Acute Tox. 4: Acute toxicity, Hazard Category 4 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2 Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 Carc. 2: Carcinogenicity, Hazard Category 2 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2 • * Data compared to the previous version altered.