illbruck

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

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Version number 8

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SECTION 2		fication of the substance/mixture and of the company/
· 1.1 Product ic	lentifier	
· Trade name:	illbruck PL	J700
No further rele	dentified u	uses of the substance or mixture and uses advised against nation available. tance / the mixture Sealant
<ul> <li>Manufacturer, tremco illbruck</li> <li>Vlietskade 103</li> </ul>	<b>/Supplier:</b> Productie 32, 4241 W 568000, F:	C Arkel +31 (0) 183568100
T: +44 (0) 194	: Ltd d, Hindley 2251400, F	ainable from: Green, Wigan, WN2 4HT F: +44 (0) 1942251410 k, uk.info@tremco-illbruck.com
<ul> <li>1.4 Emergence During office h centre.</li> </ul>		<b>ne number:</b> 44 (0) 1942251400. At all other times please contact your national poisoning
SECTION 2	: Hazards	s identification
		substance or mixture g to Regulation (EC) No 1272/2008
Aerosol 1	H222-H22	29 Extremely flammable aerosol. Pressurised container: May burst if heated.
Acute Tox. 4	H332	Harmful if inhaled.
	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
Resp. Sens. 1		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 SE 3	H373	May cause damage to organs through prolonged or repeated exposure.
· 2.2 Label elen		Regulation (EC) No 1272/2008
		and labelled according to the CLP regulation.
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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	50- <75%
	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	
EC number: 911-815-4	tris(2-chloro-1-methylethyl)phosphate	10- <20%
Reg.nr.: 01-2119486772-26-xxxx	Acute Tox. 4, H302	
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CAS: 9082-00-2		Contd. of page
CAS. 9002-00-2	Ethoxylated/propoxylated glycerol Acute Tox. 4, H302	10- <20%
CAS: 25791-96-2 NLP: 500-044-5	Glycerol, propoxylated Acute Tox. 4, H302	10- <20%
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%
humidity: Carbon dioxide For the wording of the listed haza SECTION 4: First aid meas	·	
<ul> <li>4.1 Description of first aid measurements</li> </ul>	sures	

· Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· For safety reasons unsuitable extinguishing agents: Water with full jet

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<ul> <li>5.2 Special hazards arising from the substance or mixture         <ul> <li>Can form explosive gas-air mixtures.</li> <li>Carbon monoxide (CO)</li> <li>Carbon dioxide</li> <li>Nitrogen oxides (NOx)</li> <li>Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:</li> <li>Hydrogen cyanide (HCN)</li> <li>5.3 Advice for firefighters</li> <li>Protective equipment: Wear self-contained respiratory protective device.</li> </ul> </li> </ul>
SECTION 6: Accidental release measures
<ul> <li>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 Keep away from ignition sources. </li> <li>6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.</li> <li>6.3 Methods and material for containment and cleaning up:</li> <li>Dispose contaminated material as waste according to item 13.</li> <li>Ensure adequate ventilation.</li> <li>Do not flush with water or aqueous cleansing agents</li> <li>6.4 Reference to other sections</li> <li>See Section 7 for information on safe handling.</li> <li>See Section 8 for information on personal protection equipment.</li> <li>See Section 13 for disposal information.</li> </ul>
SECTION 7: Handling and storage
<ul> <li>7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Keep away from sources of ignition - No smoking. Do not breathe vapour. Avoid contact with the eyes and skin.</li> <li>Information about fire - and explosion protection: Do not spray onto a naked flame or any incandescent material. Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use. The usual precautionary measures are to be adhered to when handling chemicals.</li> </ul>
<ul> <li>7.2 Conditions for safe storage, including any incompatibilities</li> <li>Storage:</li> <li>Requirements to be met by storerooms and receptacles: Store in a cool location. Observe official regulations on storing packagings with pressurised containers. Store only in unopened original receptacles.</li> <li>Information about storage in one common storage facility: Store away from water.</li> </ul>



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(Contd. of page 4) Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. · Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

· 7.3 Specific end use(s) No further relevant information available.

# 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:

9016-87-9 diphenylmethanediisocyanate, isomers and homologues

WEL Short-term value: 0.07 mg/m<sup>3</sup> Long-term value: 0.02 mg/m<sup>3</sup> Sen: as -NCO

#### 115-10-6 dimethyl ether

WEL Short-term value: 958 mg/m<sup>3</sup>, 500 ppm Long-term value: 766 mg/m<sup>3</sup>, 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:



Protective gloves

 Material of gloves Butyl rubber, BR Recommended thickness of the material:  $\geq 0.7$  mm Nitrile rubber, NBR Recommended thickness of the material:  $\geq 0.4$  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).

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· Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

SECTION 9: Physical and chemi	cal properties
<ul> <li>9.1 Information on basic physical and</li> <li>General Information</li> <li>Appearance:</li> </ul>	chemical properties
Form: Colour: · Odour: · Odour threshold:	Aerosol According to product specification Characteristic Not determined.
<ul> <li>pH-value:</li> <li>Melting point/freezing point:</li> <li>Initial boiling point and boiling range:</li> </ul>	Not determined. Not applicable, as aerosol. Not applicable, as aerosol.
· Flash point:	-97 °C
· Flammability (solid, gas):	Not applicable.
· Ignition temperature:	
Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits: Lower: Upper:	3.0 Vol % 18.6 Vol %
· Vapour pressure at 20 °C:	5200 hPa
<ul> <li>Density at 20 °C:</li> <li>Relative density</li> <li>Vapour density</li> <li>Evaporation rate</li> </ul>	1.02 g/cm <sup>3</sup> Not determined. Not determined. Not applicable.
<ul> <li>Solubility in / Miscibility with water:</li> </ul>	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
<ul> <li>Viscosity:</li> <li>Dynamic:</li> <li>Kinematic:</li> </ul>	Not determined. Not determined.
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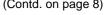
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<ul> <li>Solvent content:</li> <li>VOC (EU)</li> <li>VOC (EC)</li> <li>9.2 Other information</li> </ul>	153.0 g/l 15.00 % No further relevant information available.
SECTION 10: Stability and	reactivity
<ul> <li>10.5 Incompatible materials: No</li> <li>10.6 Hazardous decomposition Carbon monoxide and carbon dio Nitrogen oxides (NOx)</li> </ul>	tions to be avoided: ng to specifications. eactions air. es, sparks, open flames and other ignition sources. No smoking. o further relevant information available. products:
SECTION 11: Toxicologica • 11.1 Information on toxicologic • Acute toxicity Harmful if inhaled.	
· LD/LC50 values relevant for cla	ssification:
	ocyanate, isomers and homologues
Oral         LD50         > 10000 mg.           Dermal         LD50         > 10000 mg.           Inhalative         LC50/4 h         1.5 mg/L (rational content)	/kg (rabbit)
May cause an allergic skin reaction • CMR effects (carcinogenity, mu • Germ cell mutagenicity Based of • Carcinogenicity Suspected of causing cancer.	ptoms or breathing difficulties if inhaled.



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· 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:

## 9016-87-9 diphenylmethanediisocyanate, isomers and homologues

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

EC50/24 h > 1000 mg/L (daphnia magna)

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

- 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.

Disposal must be made according to official regulations.

Do not pierce or burn, even after use.

· Waste disposal key: UK (WM3) : HP3 HP4 HP5 HP6 HP7 HP13

## · European waste catalogue

16 05 04*	gases in pressure containers (including halons) containing hazardous substances
08 05 01*	waste isocvanates

## · Uncleaned packaging:

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

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· 14.1 UN-Number	
· ADR, IMDG, IATA	UN1950
<ul> <li>14.2 UN proper shipping name</li> </ul>	
· ADR	1950 AEROSOLS
·IMDG	AEROSOLS
·IATA	AEROSOLS, flammable
· 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
<ul> <li>· 14.5 Environmental hazards:</li> <li>· Marine pollutant:</li> </ul>	No
<ul> <li>14.6 Special precautions for user</li> </ul>	Warning: Gases.
· Danger code (Kemler):	-
· EMS Number:	F-D,S-U
· Stowage Code	SW1 Protected from sources of heat.
	SW22 For AEROSOLS with a maximum capac of 1 litre: Category A. For AEROSOLS with
	capacity above 1 litre: Category B. For WAS
	AEROSOLS: Category C, Clear of living quarters
· Segregation Code	SG69 For AEROSOLS with a maximum capacity
	1 litre: Segregation as for class 9. Stow "separate
	from" class 1 except for division 1.4. F
	AEROSOLS with a capacity above 1 lit
	Segregation as for the appropriate subdivision
	class 2. For WASTE AEROSOLS: Segregation
	for the appropriate subdivision of class 2.
• 14.7 Transport in bulk according to Anne	
Marpol and the IBC Code	Not applicable.



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ADR	
<ul> <li>Limited quantities (LQ)</li> </ul>	1L
<ul> <li>Excepted quantities (EQ)</li> </ul>	Code: E0
Treperent esterem	Not permitted as Excepted Quantity
<ul> <li>Transport category</li> <li>Tunnel restriction code</li> </ul>	2
· Remarks:	- Special provisions: 190, 327, 344, 625 (3.3) - Special provisions for carriage: V14 (7.2.4); CV CV12 (7.5.11); S2 (8.5)
· IMDG	
· Limited quantities (LQ)	1L
<ul> <li>Excepted quantities (EQ)</li> </ul>	Code: E0
	Not permitted as Excepted Quantity
· Remarks:	- Special provisions: 63, 190, 277, 327, 344, 9 (3.3)
· IATA	
· Remarks:	- Special provisions: A145, A167, A802 (4.4)
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1
	·

# · 15.1 Safety, health and environmental regulations/legislation specific for the substance 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)

· 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

H220 Extremely flammable gas. H280 Contains gas under pressure; may explode if heated. H302 Harmful if swallowed. H315 Causes skin irritation.

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(Contd. of page 10) 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. · 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 - Category 1 Aerosol 1: Aerosols – Category 1 Press. Gas C: Gases under pressure - Compressed gas 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 • \* Data compared to the previous version altered. GB