illbruck

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

Printing date 14.01.2016

Version number 7

Revision: 14.01.2016

Printing date 14.01	.2016	Version number 7	Revision: 14.01.2016
SECTION 1 undertaking		cation of the substance/mixture and	of the company/
· 1.1 Product id	lentifier		
· Trade name: i	Ilbruck FM6	<u>17</u>	
No further rele	dentified use vant informat	es of the substance or mixture and uses advise ion available. nce / the mixture Sealant	d against
 Manufacturer/ tremco illbruck Vlietskade 103 	/Supplier: Productie B. 2, 4241 WC 568000, F: +3	Arkel 31 (0) 183568100	
T: +44 (0) 194 www.tremco-ill • 1.4 Emergenc	Ltd d, Hindley Gr 2251400, F: - bruck.co.uk, y telephone	reen, Wigan, WN2 4HT +44 (0) 1942251410 uk.info@tremco-illbruck.com	your national poisoning
SECTION 2	Hazards i	dentification	
		ubstance or mixture	
		o Regulation (EC) No 1272/2008	
Aerosol 1	-	Extremely flammable aerosol. Pressurised contain	er: 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	H334	May cause allergy or asthma symptoms or breathing	ng 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 of	or repeated exposure.
	ording to Re classified an grams	gulation (EC) No 1272/2008 d labelled according to the CLP regulation.	
			(Contd. on page 2)

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Signal v	vord Danger
•	0
Contain	
• •	methanediisocyanate, isomers and homologues
	statements
	229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H332 H315	Harmful if inhaled. Causes skin irritation.
H315	
H334	Causes serious eye irritation.
H317	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H335	May cause respiratory irritation.
H373	May cause respiratory initiation. May cause damage to organs through prolonged or repeated exposure.
P210	ionary statements Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. N
FZIU	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+P	311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P410+P4	412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
Suppler	nental information:
EUH204	Contains isocyanates. May produce an allergic reaction.
2.3 Othe	er hazards
Results	of PBT and vPvB assessment
PBT: No	ot applicable.
vPvB: N	lot applicable.
SECTI	ON 3: Composition/information on ingredients
3.2 Mixt	

· 3.2 Mixtures

Γ

· Description: Active substance with propellant

· Dangerous components:

· Dangerous components.		
CAS: 9016-87-9	diphenylmethanediisocyanate, isomers and homologues	30- <50%
	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	
CAS: 25791-96-2	Glycerol, propoxylated	10- <20%
NLP: 500-044-5	Acute Tox. 4, H302	
EC number: 911-815-4	tris(2-chloro-1-methylethyl)phosphate	10- <20%
Reg.nr.: 01-2119486772-26-xxxx	Acute Tox. 4, H302	
CAS: 115-10-6	dimethyl ether	10- <20%
EINECS: 204-065-8	Flam. Gas 1, H220; Press. Gas C, H280	
Reg.nr.: 01-2119472128-37-xxxx		
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CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27-xxxx	
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21-xxxx	propane 1- <5% Flam. Gas 1, H220; Press. Gas C, H280
 Additional information: While curing the following subs humidity: Carbon dioxide For the wording of the listed risk p 	stances are formed and released by a reaction with atmospheric obtained by a reaction
SECTION 4: First aid meas	ures
 4.1 Description of first aid meas General information: Take affec After inhalation: 	sures sted persons out of danger area and lay down.
Supply fresh air and to be sure ca	all for a doctor. e patient stably in side position for transportation.
Immediately wash with water and If symptoms persist consult docto • After eye contact:	
After swallowing: Do not induce 4.2 Most important symptoms a	nutes under running water. If symptoms persist, consult a doctor. vomiting; call for medical help immediately. and effects, both acute and delayed
No further relevant information av • Information for doctor: No furthe • Hazards No further relevant information of the second	er relevant information available. mation available.
 • 4.3 Indication of any immediate No further relevant information av 	e medical attention and special treatment needed vailable.
SECTION 5: Firefighting m	easures
	nt larger fires with water spray or alcohol resistant foam.
 5.2 Special hazards arising from Carbon monoxide (CO) 	extinguishing agents: Water with full jet n the substance or mixture
Carbon dioxide Nitrogen oxides (NOx) Under certain fire conditions, trace Hydrogen cyanide (HCN) • 5.3 Advice for firefighters	es of other toxic gases cannot be excluded, e.g.:
	f-contained respiratory protective device.

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SECTION 6: Accidental release measures 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water. \cdot 6.3 Methods and material for containment and cleaning up: Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents · 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. Open and handle receptacle with care. · Information about fire - and explosion protection: Do not spray onto a naked flame or any incandescent material. 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. · 7.2 Conditions for safe storage, including any incompatibilities · Storage: · Requirements to be met by storerooms and receptacles: Observe official regulations on storing packagings with pressurised containers. · Information about storage in one common storage facility: Store away from water. · Further information about storage conditions: Keep container tightly sealed. Do not seal receptacle gas tight. 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/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO 115-10-6 dimethyl ether WEL Short-term value: 958 mg/m³, 500 ppm Long-term value: 766 mg/m³, 400 ppm (Contd. on page 5) GB

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• Additional information: The lists valid	(Contd. of page 4) during the making were used as basis.
 8.2 Exposure controls Personal protective equipment: General protective and hygienic mease Keep away from foodstuffs, beverages a Immediately remove all soiled and conta Wash hands before breaks and at the e Avoid contact with the eyes and skin. Do not inhale gases / fumes / aerosols. Respiratory protection: This product should not be used under appropriate gas filter (i.e. type A1 accord) 	and feed. aminated clothing nd of work. conditions of poor ventilation unless a protective mask with an
Protective gloves	
 Material of gloves Nitrile rubber, NBR Recommended thickness of the materia Butyl rubber, BR Recommended thickness of the materia Penetration time of glove material For the mixture of chemicals mentione (Permeation according to EN 374 Part 3) Eye protection: Tightly sealed goggles Body protection: Protective work clothing 	I: ≥ 0.7 mm ed below the penetration time has to be at least 480 minutes E Level 6).
SECTION 9: Physical and chemi	
 9.1 Information on basic physical and · General Information · Appearance: Form: Colour: 	
Odour: Odour threshold:	Characteristic Not determined.
 pH-value: Melting point/Melting range: 	Not determined. Not applicable, as aerosol.
· Flash point:	-97 °C
· Flammability (solid, gaseous):	Not applicable.
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· Ignition temperature:	
Decomposition temperature:	Not determined.
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosiv 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:	0.98 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/w	vater): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
VOC (EU)	200.5 g/l
VOC (EC)	20.50 %
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: No dangerous decomposition products known.

SECTION 11: Toxicological information

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

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		(Contd. of page
LD/LC50	values rele	evant for classification:
9016-87-9	diphenyl	methanediisocyanate, isomers and homologues
Oral	LD50	> 10000 mg/kg (rat)
Dermal	LD50	> 10000 mg/kg (rabbit)
Inhalative	LC50/4 h	0.493 mg/L (rat)
25791-96-	2 Glycero	I, propoxylated
Oral	LD50	> 2000 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rabbit)
Primary in	ritant effe	ect:
Skin corre	osion/irrit	ation
Causes sk	in irritatior).
		e/irritation
Causes se		
-	•	sensitisation
		r asthma symptoms or breathing difficulties if inhaled.
		ic skin reaction. nogenity, mutagenicity and toxicity for reproduction)
		icity Based on available data, the classification criteria are not met.
Carcinoge		icity based on available data, the classification chiefia are not met.
Suspected		a cancer.
		ity Based on available data, the classification criteria are not met.
STOT-sin		
May cause	e respirato	ry irritation.
May cause		
May cause STOT-rep May cause	eated exp	osure to organs through prolonged or repeated exposure.
May cause STOT-rep May cause	eated exp	osure
May cause STOT-rep May cause Aspiration SECTIO	eated exp e damage n hazard E N 12: Ec	osure to organs through prolonged or repeated exposure.
May cause STOT-rep May cause Aspiration SECTIO 12.1 Toxic Aquatic to	eated exp e damage n hazard E N 12: Ec city pxicity:	osure to organs through prolonged or repeated exposure. Based on available data, the classification criteria are not met. ological information
May cause STOT-rep May cause Aspiration SECTION 12.1 Toxic Aquatic to 9016-87-9	eated exp e damage n hazard E N 12: Ec city oxicity: diphenyli	to organs through prolonged or repeated exposure. Based on available data, the classification criteria are not met. ological information methanediisocyanate, isomers and homologues
May cause STOT-rep May cause Aspiration SECTION 12.1 Toxic Aquatic to 9016-87-9	eated exp e damage n hazard E N 12: Ec city oxicity: diphenyli	osure to organs through prolonged or repeated exposure. Based on available data, the classification criteria are not met. ological information
May cause STOT-rep May cause Aspiration SECTIO 12.1 Toxic Aquatic to 9016-87-9 LC0/96 h	eated exp damage h hazard E N 12: Ec city oxicity: diphenyli > 1000	to organs through prolonged or repeated exposure. Based on available data, the classification criteria are not met. ological information methanediisocyanate, isomers and homologues
May cause STOT-rep May cause Aspiration SECTION 12.1 Toxic Aquatic to 9016-87-9 LC0/96 h EC50/24 h	eated exp e damage n hazard E N 12: Ec city pxicity: diphenyli > 1000 n > 1000	to organs through prolonged or repeated exposure. Based on available data, the classification criteria are not met. ological information methanediisocyanate, isomers and homologues mg/L (brachydanio rerio)
May cause STOT-rep May cause Aspiration SECTIO 12.1 Toxic Aquatic to 9016-87-9 LC0/96 h EC50/24 h NOEC/21	eated exp e damage n hazard E N 12: Ec city oxicity: diphenyli > 1000 > 10 mg	to organs through prolonged or repeated exposure. Based on available data, the classification criteria are not met. ological information methanediisocyanate, isomers and homologues mg/L (brachydanio rerio) mg/L (daphnia magna)
May cause STOT-rep May cause Aspiration SECTION 12.1 Toxic Aquatic to 9016-87-9 LC0/96 h EC50/24 h NOEC/21 25791-96-	eated exp damage hazard E N 12: Ec sity sxicity: diphenyli > 1000 b > 1000 d > 10 mg 2 Glycero	to organs through prolonged or repeated exposure. Based on available data, the classification criteria are not met. ological information methanediisocyanate, isomers and homologues mg/L (brachydanio rerio) mg/L (daphnia magna) g/L (daphnia magna)
May cause STOT-rep May cause Aspiration SECTIO 12.1 Toxic Aquatic to 9016-87-9 LC0/96 h EC50/24 h NOEC/21 25791-96- LC50/96 h	eated exp damage hazard E N 12: Ec city oxicity: diphenyli > 1000 d > 10 mg 2 Glycero	to organs through prolonged or repeated exposure. Based on available data, the classification criteria are not met. ological information methanediisocyanate, isomers and homologues mg/L (brachydanio rerio) mg/L (daphnia magna) g/L (daphnia magna) I, propoxylated mg/L (fish)
May cause STOT-rep May cause Aspiration SECTION 12.1 Toxic Aquatic to 9016-87-9 LC0/96 h EC50/24 H NOEC/21 25791-96- LC50/96 h EC50/48 H	eated exp e damage n hazard E N 12: Ec city oxicity: diphenyli > 1000 d > 10 mg 2 Glycero 1 > 1000 n > 1000	to organs through prolonged or repeated exposure. Based on available data, the classification criteria are not met. ological information methanediisocyanate, isomers and homologues mg/L (brachydanio rerio) mg/L (brachydanio rerio) mg/L (daphnia magna) g/L (daphnia magna) I, propoxylated mg/L (fish) mg/L (daphnia magna)
May cause STOT-rep May cause Aspiration SECTION 12.1 Toxic Aquatic to 9016-87-9 LC0/96 h EC50/24 h NOEC/21 25791-96- LC50/96 h EC50/48 h EC50/72 h	eated exp damage hazard E N 12: Ec city city city: diphenyli > 1000 d > 10 mg 2 Glycero 1 > 1000 1 > 1000 1 > 1000 1 > 1000 1 > 1000	to organs through prolonged or repeated exposure. Based on available data, the classification criteria are not met. ological information methanediisocyanate, isomers and homologues mg/L (brachydanio rerio) mg/L (daphnia magna) g/L (daphnia magna) I, propoxylated mg/L (fish)

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 Ecotoxical effects: Other information: This product contains no substances in Anne depleting substances 12.5 Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. 12.6 Other adverse effects No further relevant in 	(Contd. of page 7) ex I to Directive EC 1005/2009 concerning ozone
 SECTION 13: Disposal considerations 13.1 Waste treatment methods Recommendation Must not be disposed together with household system. Waste disposal key: UK (WM3) : HP3 HP4 HP5 European waste catalogue	n those mentioned in 16 05 04
SECTION 14: Transport information	
· 14.1 UN-Number · ADR, IMDG, IATA	UN1950
 · 14.2 UN proper shipping name · ADR · IMDG · IATA 	1950 AEROSOLS AEROSOLS AEROSOLS, flammable
 · 14.3 Transport hazard class(es) · ADR · Class 	2 5F Gases.
· Label · IMDG, IATA	2.1
· Class	2.1

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· Label	2.1
· 14.4 Packing group · ADR, IMDG, IATA	Void
 • 14.5 Environmental hazards: • Marine pollutant: 	No
 14.6 Special precautions for user Danger code (Kemler): EMS Number: Stowage Code Stowage Code 	Warning: Gases. - F-D,S-U 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 WAST AEROSOLS: Category C, Clear of living quarters SG69 For AEROSOLS with a maximum capacity 1 litre: Segregation as for class 9. Stow "separat from" class 1 except for division 1.4. F AEROSOLS with a capacity above 1 litr 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 	ex II of Not applicable.
· Transport/Additional information:	
 Transport/Additional information: ADR Limited quantities (LQ) Excepted quantities (EQ) Transport category Tunnel restriction code Remarks: 	1L Code: E0 Not permitted as Excepted Quantity 2 D - Special provisions: 190, 327, 344, 625 (3.3) - Special provisions for carriage: V14 (7.2.4); CV CV12 (7.5.11); S2 (8.5)
 ADR Limited quantities (LQ) Excepted quantities (EQ) Transport category Tunnel restriction code 	Code: E0 Not permitted as Excepted Quantity 2 D - Special provisions: 190, 327, 344, 625 (3.3) - Special provisions for carriage: V14 (7.2.4); CV CV12 (7.5.11); S2 (8.5) 1L Code: E0 Not permitted as Excepted Quantity - Special provisions: 63, 190, 277, 327, 344, 9 (3.3)
 ADR Limited quantities (LQ) Excepted quantities (EQ) Transport category Tunnel restriction code Remarks: IMDG Limited quantities (LQ) Excepted quantities (EQ) 	Code: E0 Not permitted as Excepted Quantity 2 D - Special provisions: 190, 327, 344, 625 (3.3) - Special provisions for carriage: V14 (7.2.4); CV CV12 (7.5.11); S2 (8.5) 1L Code: E0 Not permitted as Excepted Quantity - Special provisions: 63, 190, 277, 327, 344, 9

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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.

- · 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.
- · Previous Revision Date: 17-01-2011 (UK)

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

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
- 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



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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.