illbruck

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

Printing date 08.06.2017

Version number 2

Revision: 08.06.2017

nung date 00.00.20	17	Version number 2	REVISION. 00.00.2017
SECTION 1: undertaking	Identifica	tion of the substance/mixture and	d of the company
· 1.1 Product iden	tifier		
· Trade name: illbr	ruck FM365		
No further relevan	ntified uses on the information	of the substance or mixture and uses advise available. / the mixture Sealant	ed against
 1.3 Details of the Manufacturer/Su tremco illbruck Provide the Vietskade 1032, 4 T: +31 (0) 183568 msds@tremco-illb 	pplier: oductie B.V. 4241 WC Ark 6000, F: +31 (
T: +44 (0) 194225 www.tremco-illbru • 1.4 Emergency te	d lindley Greer 51400, F: +44 ck.co.uk, uk.i elephone nu	n, Wigan, WN2 4HT (0) 1942251410 nfo@tremco-illbruck.com mber:	
centre.	• · ·) 1942251400. At all other times please contac	ct your national poisoning
SECTION 2: Ha	n of the subs	stance or mixture	
Aerosol 1	-	egulation (EC) No 1272/2008 Extremely flammable aerosol. Pressurised heated.	container: May burst if
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 inhaled.	breathing difficulties if
Skin Sens. 1	H317	May cause an allergic skin reaction.	
Carc. 2	H351	Suspected of causing cancer.	
Lact.	H362	May cause harm to breast-fed children.	
STOT SE 3	H335	May cause respiratory irritation.	
STOT RE 2	H373	May cause damage to organs through p exposure.	prolonged or repeated
Aquatic Chronic 4	H413	May cause long lasting harmful effects to aqu	atic life.
	ing to Regul	ation (EC) No 1272/2008 belled according to the CLP regulation.	(Contd. on page 2

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· Hazard pictograms

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GHS02 GHS07 GHS08

· Signal word Danger

· Contains:

diphenylmethanediisocyanate, isomers and homologues Ethoxylated/propoxylated glycerol

alkanes, C14-17, chloro

tris(2-chloro-1-methylethyl)phosphate

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.
- H362 May cause harm to breast-fed children.
- H335 May cause respiratory irritation.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H413 May cause long lasting harmful effects to aquatic life.

· 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.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P284 In case of inadequate ventilation wear respiratory protection.
- 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:

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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: 75-28-5	isobutane	10- <20%
EINECS: 200-857-2	Flam. Gas 1, H220; Press. Gas C, H280	
Reg.nr.: 01-2119485395-27-xxxx		
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		
CAS: 85535-85-9	alkanes, C14-17, chloro	5- <10%
EINECS: 287-477-0 Reg.nr.: 01-2119519269-33-xxxx	Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Lact., H362	
CAS: 9082-00-2	Ethoxylated/propoxylated glycerol	5- <10%
	Acute Tox. 4, H302	
CAS: 25791-96-2	Glycerol, propoxylated	5- <10%
NLP: 500-044-5	Acute Tox. 4, H302	
EC number: 911-815-4	tris(2-chloro-1-methylethyl)phosphate	1- <5%
Reg.nr.: 01-2119486772-26-xxxx	Acute Tox. 4, H302	
•	•	

· Additional information:

While curing the following substances are formed and released by a reaction with atmospheric humidity:

Carbon dioxide

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: Take affected persons out of danger area and lay down.
- · After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly. If symptoms persist consult doctor.

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- After swallowing: Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- · Information for doctor: No further relevant information available.
- · Hazards No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

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SECTION 5: Firefighting measures 5.1 Extinguishing media · 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 · 5.2 Special hazards arising from the substance or mixture Carbon monoxide (CO) Carbon dioxide 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. • 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water. · 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. (Contd. on page 5) - GB

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• 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

· 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. Avoid contact with the eyes and skin. Do not inhale gases / fumes / aerosols.

· 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: ≥ 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).

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

· Eye protection:



Tightly sealed goggles

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· Body protection: Protective work clothing

SECTION 9: Physical and chemical properties		
 9.1 Information on basic physical and chemical properties General Information Appearance: 		
Form: Colour: · Odour:	Aerosol According to product specification Characteristic	
· Odour threshold:	Not determined.	
 pH-value: Melting point/freezing point: Initial boiling point and boiling range: 	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	
 Density at 20 °C: Relative density Vapour density Evaporation rate 	1 g/cm ³ Not determined. Not determined. Not applicable.	
 Solubility in / Miscibility with water: 	Not miscible or difficult to mix.	
· Partition coefficient: n-octanol/water:	Not determined.	
 Viscosity: Dynamic: Kinematic: 	Not determined. Not determined.	
 Solvent content: VOC (EU) VOC (EC) 9.2 Other information 	228.5 g/l 20.40 % No further relevant information available.	

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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.				
· LD/LC50 values relevant for classification:				
9016-87-9 diphenylmethanediisocyanate, isomers and homologues				
Oral LD50 > 10000 mg/kg (rat)				
Dermal LD50 > 10000 mg/kg (rabbit)				
Inhalative LC50/4 h 1.5 mg/L (rat)				
 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 May cause harm to breast-fed children. STOT-single 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)				

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EC50/24 h > 1000 mg/L (daphnia magna)				
NOEC/21 d > 10 mg/L (daphnia magna)				
• 12.2 Persistence and degradability No further				
Other information: The product is not easily bio				
 12.3 Bioaccumulative potential No further relevant information available. 12.4 Mobility in soil No further relevant information available. 				
 12.4 Mobility in soil No further relevant information available. Ecotoxical effects: 				
· Remark:				
Using the aforementioned tests, it can be proven that the ecotoxicological effects are very low. In keeping with the underlying regulations, the labelling was adjusted accordingly.				
 Other information: This product contains no substances in Annex I to Directive EC 1005/2009 concerning ozor depleting substances 				
· Additional ecological information:				
· General notes:				
Do not allow product to reach ground water, wate				
Danger to drinking water if even small quantities	leak into the ground.			
12.5 Results of PBT and vPvB assessment				
 • PBT: Not applicable. • vPvB: Not applicable. 				
• 12.6 Other adverse effects No further relevant i	nformation available.			
SECTION 13: Disposal considerations				
· 13.1 Waste treatment methods				
· Recommendation				
· ·	d garbage. Do not allow product to reach sewage			
system.				
· European waste catalogue				
16 05 04 [*] gases in pressure containers (including halons) containing hazardous substances				
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			
· IMDG	AEROSOLS (alkanes, C14-17, chloro), MARINE			
	POLLUTANT			
	AEROSOLS, flammable			
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 14.3 Transport hazard class(es) 		
· ADR		
· Class	2 5F Gases.	
· Label	2.1	
·IMDG		
· Class	2.1	
· Label	2.1	
· Class	2.1	
· Label	2.1	
 · 14.4 Packing group · ADR, IMDG, IATA 	Void	
· 14.5 Environmental hazards:	Product contains substances: alkane	s environmentally hazardou
· Marine pollutant:	Yes	
· Special marking (ADR):	Symbol (fish and tr Symbol (fish and tr	
• 14.6 Special precautions for use	• •	,
Danger code (Kemler):	warning: Gases.	
· EMS Number:	F-D,S-U	
· Stowage Code	of 1 litre: Catego capacity above 1	m sources of heat. SOLS with a maximum capacion ory A. For AEROSOLS with litre: Category B. For WAST gory C, Clear of living quarters.
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Segregation Code	SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
14.7 Transport in bulk according to Anne	ex II of
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
Transport category	2
Tunnel restriction code	D
Remarks:	- 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)	1L
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
Remarks:	- Special provisions: 63, 190, 277, 327, 344, 959 (3.3)
ΙΑΤΑ	
Remarks:	- Special provisions: A145, A167, A802 (4.4)
UN "Model Regulation":	UN 1950 AEROSOLS, 2.1

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.

· Directive 2012/18/EU

- · Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- · National regulations:
- · Information about limitation of use:

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

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- · 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.

H362 May cause harm to breast-fed children.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

· 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 Lact .: Reproductive toxicity - effects on or via lactation STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1 Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard - Category 4

 \cdot * Data compared to the previous version altered.