illbruck

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

Printing date 23.08.2013

Version number 5

Revision: 23.08.2013

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SECTION 1 undertaking	: Identification d	of the substance/mix	ture and of the company/
· 1.1 Product ide	entifier		
· Trade name: il	bruck FM710		
No further relev			ses advised against
<ul> <li>Manufacturer/S</li> <li>Tremco illbruck</li> <li>Vlietskade 1032</li> </ul>	Productie B.V. 2, 4241 WC Arkel 68000, F: +31 (0) 1835	-	
Tremco illbruck Coupland Road T: +44 (0) 1942	ation obtainable from Ltd Hindley Green, Wiga 2251400, F: +44 (0) 19 pruck.co.uk, uk.info@tr	n, WN2 4HT 942251410	
	<b>/ telephone number:</b> ours tel.: +44 (0) 19422	251400. At all other times plea	ase contact your national poisoning
<b>SECTION 2:</b>	Hazards identifica	ation	
· 2.1 Classificati	ion of the substance	or mixture	
<ul> <li>Classification</li> <li>Xn; Harmfu</li> </ul>	•	e 67/548/EEC or Directive 1	999/45/EC
R20-40-48/20:		n. Limited evidence of a carcinealth by prolonged exposure	inogenic effect. Harmful: danger of through inhalation.
🗙 Xn; Sensiti	sing		
R42/43:	May cause sensitisa	tion by inhalation and skin co	ntact.
Xi; Irritant			
R36/37/38:	Irritating to eyes, res	piratory system and skin.	
F+; Extrem	ely flammable		
R12:	Extremely flammable	Э.	
The product had guideline for pre-	to breastfed babies. Incerning particular h as to be labelled due eparations of the EU" in	nazards for human and envi	atic environment. May cause harm <b>ronment:</b> ure of the "General Classification
warning! Press	urized container.		(Contd. on page 2)

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· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

#### · 2.2 Label elements

· Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· Code letter and hazard designation of product:



Xn Harmful F+ Extremely flammable

· Hazard-determining components of labelling:

diphenylmethanediisocyanate, isomeres and homologues

#### · Risk phrases:

- 12 Extremely flammable.
- 20 Harmful by inhalation.

36/37/38 Irritating to eyes, respiratory system and skin.

- 40 Limited evidence of a carcinogenic effect.
- 42/43 May cause sensitisation by inhalation and skin contact.
- 48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- 53 May cause long-term adverse effects in the aquatic environment.
- 64 May cause harm to breastfed babies.

#### · Safety phrases:

- 2 Keep out of the reach of children.
- 16 Keep away from sources of ignition No smoking.
- 23 Do not breathe vapour/spray.
- 36/37 Wear suitable protective clothing and gloves.
- 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- 51 Use only in well-ventilated areas.
- 57 Use appropriate container to avoid environmental contamination.

#### · Special labelling of certain preparations:

Contains isocyanates. See information supplied by the manufacturer

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material.

- Classification in accordance with Directive 75/324/EEC: Extremely flammable
- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.

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<ul> <li>Dangerous componen</li> </ul>	ts:	
CAS: 9016-87-9 EINECS: 202-966-0	diphenylmethanediisocyanate,isomeres and homologues Xn R20-40-48/20; Xn R42/43; Xi R36/37/38 Carc. Cat. 3	30- <50
CAS: 85535-85-9 EINECS: 287-477-0	alkanes, C14-17, chloro N R50/53 R64-66 Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Lact., H362	5- <10
CAS: 8001-79-4 EINECS: 232-293-8	Castor oil Xi R38 Skin Irrit. 2, H315	5- <10
CAS: 115-10-6 EINECS: 204-065-8	dimethyl ether imethyl ether F+ R12 imethyl ether Flam. Gas 1, H220; imptibility Press. Gas, H280	5- <10
CAS: 1244733-77-4 EC number: 911-815-4	tris(2-chloro-1-methylethyl)phosphate	5- <104
CAS: 75-28-5 EINECS: 200-857-2	isobutane	1- <5%
CAS: 107-21-1 EINECS: 203-473-3	ethanediol Xn R22 STOT RE 2, H373; () Acute Tox. 4, H302	1- <5%
CAS: 74-98-6 EINECS: 200-827-9	propane F+ R12 Flam. Gas 1, H220;  Press. Gas, H280	1- <5%
humidity: Carbon dioxide	n: wing substances are formed and released by a reaction with a sted risk phrases refer to section 16.	tmosphe
• After inhalation: Supply fresh air and to b		



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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.

### **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
- $\cdot$  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 Not required.

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.

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(Contd. of page 4) Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50  $^{\circ}$ 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 pressurized containers.
- $\cdot$  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,isomeres 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

#### 107-21-1 ethanediol

WEL () Short-term value: 104\*\* mg/m<sup>3</sup>, 40\*\* ppm Long-term value: 10\* 52\*\* mg/m<sup>3</sup>, 20\*\* ppm Sk \*particulate \*\*vapour

· 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.

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· Protection of hands:



Protective gloves

Material of gloves
 PE gloves

Recommended thickness of the material:  $\geq 0.02$  mm

- Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- For the permanent contact gloves made of the following materials are suitable: Nitrile rubber, NBR Natural rubber, NR
- For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:
- PE gloves
- · Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

SECTION 9: Physical and chemical properties		
<ul> <li>9.1 Information on basic physical ar</li> <li>General Information</li> </ul>	nd chemical properties	
· Appearance:		
Form:	Aerosol	
Colour:	According to product specification	
· Odour:	Characteristic	
· Odour threshold:	Not determined.	
· pH-value:	Not determined.	
<ul> <li>Change in condition Melting point/Melting range: Boiling point/Boiling range:</li> </ul>	Not applicable, as aerosol. 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.	
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· Explosion limits: Lower: Upper:	3.0 Vol % 18.6 Vol %
· Vapour pressure:	Not determined.
Density at 20 °C:     Relative density     Vapour density     Evaporation rate	1 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> <li>Solvent content:</li> </ul>	Not determined. Not determined.
VOC (EU) VOC (EC) · 9.2 Other information	159.9 g/l 16.00 % No further relevant information available.
<ul> <li>SECTION 10: Stability and react</li> <li>10.1 Reactivity</li> <li>10.2 Chemical stability</li> <li>Thermal decomposition / conditions to No decomposition if used according to stability of hazardous reaction</li> <li>10.3 Possibility of hazardous reaction</li> <li>10.4 Conditions to avoid No further relision of the stability of the stab</li></ul>	<b>to be avoided:</b> specifications. <b>Is</b> No dangerous reactions known. levant information available.
SECTION 11: Toxicological info · 11.1 Information on toxicological effe	
· Acute toxicity:	
LD/LC50 values relevant for classification of the second sec	
9016-87-9 diphenylmethanediisocyanOralLD50> 10000 mg/kg (raDermalLD50> 10000 mg/kg (raInhalativeLC50/4 hca. 0.493 mg/L (raDrimony invitent offectiveState	t) bbit)
<ul> <li>Primary irritant effect:</li> <li>on the skin: Irritant to skin and mucous</li> <li>on the eye: Irritating effect.</li> <li>Sensitization: Sensitization possible through inhalation</li> </ul>	

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Sensitization possible through skin contact.

 Additional toxicological information: The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Harmful Irritant

## **SECTION 12: Ecological information**

#### · 12.1 Toxicity

#### · Aquatic toxicity:

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

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

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

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

- 12.2 Persistence and degradability No further relevant information available.
- Other information: The product is difficultly biodegradable.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.

#### · Ecotoxical effects:

- NOEC > 1000 mg/L (daphnia magna)
  - > 1000 mg/L (algae)

#### · 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 2037/2000 concerning ozone depleting substances

- · Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system.

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 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

16 05 05 gases in pressure containers other than those mentioned in 16 05 04

15 01 04 metallic packaging

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· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport informatio	n
· 14.1 UN-Number · ADR, IMDG, IATA	UN1950
<ul> <li>· 14.2 UN proper shipping name</li> <li>· ADR</li> </ul>	1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS
· IMDG	AEROSOLS (alkanes, C14-17, chloro), MARINE POLLUTANT
·IATA	AEROSOLS, flammable
<ul> <li>14.3 Transport hazard class(es)</li> </ul>	
· ADR	
· Class	2 5F Gases.
· Label	2.1
· IMDG	
· Class · Label	2.1 2.1
	2.1
Class	2.1
· Label	2.1
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards:	Product contains environmentally hazardous substances: alkanes, C14-17, chloro
· Marine pollutant:	Yes Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
<ul> <li>· 14.6 Special precautions for user</li> <li>· Danger code (Kemler):</li> </ul>	Warning: Gases. -
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· EMS Number:	F-D,S-U	
<ul> <li>14.7 Transport in bulk according to Ai MARPOL73/78 and the IBC Code</li> </ul>	nnex II of Not applicable.	
· Transport/Additional information:		
· ADR		
<ul> <li>Limited quantities (LQ)</li> </ul>	1L	
Transport category	2	
· Tunnel restriction code	D	

# **SECTION 15: Regulatory information**

- $\cdot$  15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
  - Directive 1999/45/EC.

"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). "Aerosol" Regulation (EC) No 75/324.

#### · 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.
- 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.
- R12 Extremely flammable.

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(Contd. of page 10) R20 Harmful by inhalation. Harmful if swallowed. R22 R36/37/38 Irritating to eyes, respiratory system and skin. R38 Irritating to skin. R40 Limited evidence of a carcinogenic effect. May cause sensitisation by inhalation and skin contact. R42/43 R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R64 May cause harm to breastfed babies. R66 Repeated exposure may cause skin dryness or cracking. • \* Data compared to the previous version altered. GB