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# Safety data sheet acc. to (EC) No 1907/2006, as amended by UK SI 2019/758

Printing date 07.09.2021

Version number 6

Revision: 06.09.2021

SECTION 1: Identi undertaking	fication of the substance/mixture and of the company/				
· 1.1 Product identifier					
• Trade name: illbruck FM3	· Trade name: illbruck FM330				
<ul> <li>MSDS code: A-I-FM330</li> <li>1.2 Relevant identified us No further relevant information</li> <li>Application of the substation</li> </ul>					
<ul> <li>1.3 Details of the supplie</li> <li>Manufacturer/Supplier: Tremco CPG Netherlands</li> <li>Vlietskade 1032, 4241 WC</li> <li>T: +31 (0) 183568000, F: +</li> <li>msds@cpg-europe.com</li> </ul>	B.V. S Arkel				
• <b>Further information obta</b> Tremco CPG UK Ltd Coupland Road, Hindley G T: +44 (0) 1942251400, F: www.cpg-europe.com, info	reen, Wigan, WN2 4HT +44 (0) 1942251410				
	<b>e number:</b> +44 (0) 1942251400. At all other times it is recommended to call NHS 111 , your local GP/pharmacist (NI), 01 809 2166 (ROI), or otherwise to contact a				
SECTION 2: Hazards	identification				
Aerosol 1       H222-H229         Acute Tox. 4       H332         Skin Irrit. 2       H315         Eye Irrit. 2       H319         Resp. Sens. 1       H334         Skin Sens. 1       H317         Carc. 2       H351         STOT SE 3       H335         STOT RE 2       H373	<ul> <li>to Regulation (EC) No 1272/2008</li> <li>Extremely flammable aerosol. Pressurised container: May burst if heated. Harmful if inhaled.</li> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> <li>May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>May cause an allergic skin reaction.</li> <li>Suspected of causing cancer.</li> <li>May cause respiratory irritation.</li> <li>May cause damage to organs through prolonged or repeated exposure.</li> </ul>				
• •	egulation (EC) No 1272/2008 nd labelled according to the CLP regulation. (Contd. on page 2) GB				



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· Hazard pictograms			
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< <u>()</u> < <u>()</u> < <u>()</u> < <u>()</u>			
GHS02 GHS07 GHS08			
· Signal word Danger			
· Contains:			
methylenediphenyl diisocyanate			
Hazard statements			
H222-H229 Extremely flammab	le aerosol. Pressurised container: May burst if heated.		
H332 Harmful if inhaled.	-		
H315 Causes skin irritation	n.		
H319 Causes serious eye			
	or asthma symptoms or breathing difficulties if inhaled.		
H317 May cause an aller			
H351 Suspected of causi			
H335 May cause respirat	•		
	to organs through prolonged or repeated exposure.		
Precautionary statements			
	eat, hot surfaces, sparks, open flames and other ignition sources. No		
smoking.			
	open flame or other ignition source.		
P251 Do not pierce or bu			
	t/fume/gas/mist/vapours/spray.		
	ate 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:	In Do hol expose to temperatures exceeding 50° C/122° 1.		
EUH204 Contains isocyanates. May produce an allergic reaction.			
As from 24 August 2023 adequate training is required before industrial or professional use.			
· 2.3 Other hazards			
· Results of PBT and vPvB assessment			
· PBT: Not applicable.			
· <b>vPvB:</b> Not applicable.			
SECTION 3: Composition	/information on ingredients		
-			
· 3.2 Mixtures			
• <b>Description:</b> Active substance	with propellant		
· Dangerous components:			
CAS: 26447-40-5	methylenediphenyl diisocyanate 30-<50%		
EINECS: 247-714-0	Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373;		
Reg.nr.: 01-2119457015-45-xx>	x Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319;		
	Skin Sens. 1, H317; STOT SE 3, H335		
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CAS: 9082-00-2	Ethoxylated/propoxylated glycerol	10-<20%
	Acute Tox. 4, H302	
CAS: 25791-96-2	Glycerol, propoxylated	10-<20%
NLP: 500-044-5	Acute Tox. 4, H302	
CAS: 1244733-77-4	tris(2-chloro-1-methylethyl)phosphate	10-<20%
EC number: 807-935-0	Acute Tox. 4, H302	
Reg.nr.: 01-2119486772-26-xxxx		
CAS: 115-10-6	dimethyl ether	5-<10%
EINECS: 204-065-8	Flam. Gas 1A, H220; Press. Gas (Comp.), H280	
Reg.nr.: 01-2119472128-37-xxxx		
CAS: 75-28-5	isobutane	5-<10%
EINECS: 200-857-2	Flam. Gas 1A, H220; Press. Gas (Comp.), H280	
Reg.nr.: 01-2119485395-27-xxxx		
CAS: 74-98-6	propane	1-<5%
EINECS: 200-827-9	Flam. Gas 1A, H220; Press. Gas (Comp.), H280	
Reg.nr.: 01-2119486944-21-xxxx		

#### · SVHC -

• Additional information: 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.
- · Information for doctor: No further relevant information available.
- 4.2 Most important symptoms and effects, both acute and delayed
- No further relevant information available.
- $\cdot$  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.

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Version number 6 Trade name: illbruck FM330 (Contd. of page 3) · 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 (CO2) 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 of contaminated material as waste according to Section 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)



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Printing date 07.09.2021 Version number 6 Revision: 06.09.2021 Trade name: illbruck FM330 (Contd. of page 4) • 7.3 Specific end use(s) No further relevant information available. **SECTION 8: Exposure controls/personal protection** · 8.1 Control parameters • Additional information about design of technical facilities: No further data; see item 7. · Ingredients with limit values that require monitoring at the workplace: CAS: 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 · PNECs CAS: 26447-40-5 methylenediphenyl diisocyanate PNEC 1 mg/L (fresh water) 1 mg/L (sewage treatment plant) 1 mg/L (soil) 10 mg/L (sporadic release) 0.1 mg/L (salt water) PNEC mg/kg dwt (sediment (salt water)) (exposure not expected) mg/kg dwt (sediment (fresh water)) (exposure not expected) CAS: 1244733-77-4 tris(2-chloro-1-methylethyl)phosphate PNEC 0.64 mg/L (fresh water) 0.064 mg/L (marine) PNEC 1.7 mg/kg dwt (soil) 1.34 mg/kg dwt (sediment (salt water)) CAS: 115-10-6 dimethyl ether PNEC 0.155 mg/L (fresh water) 160 mg/L (sewage treatment plant) 1.549 mg/L (intermittent release) 0.016 mg/L (salt water) PNEC 0.045 mg/kg (soil) 0.069 mg/kg (sediment (salt water)) · Additional information: The lists valid during the making were used as basis. HSE EH40/2005 Workplace Exposure Limits (as amended) 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. (Contd. on page 6)



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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:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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.

## For further guidance,

please refer to HSE HSG53 "Respiratory Protective Equipment at work - A Practical Guide".

#### · 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 16523-1:2015: 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

#### · 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



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· Odour threshold:	Not determined.		
<ul> <li>pH-value:</li> <li>Melting point/freezing point:</li> </ul>	Mixture reacts violently with water. Not applicable, as aerosol. Undetermined.		
· Flash point:	-97 °C		
· Flammability (solid, gas):	Not applicable.		
· Ignition temperature:	235 °C		
· 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.		
<ul> <li>Explosion limits: Lower: Upper:</li> </ul>	1.8 Vol % 18.6 Vol %		
· Vapour pressure at 20 °C:	0 hPa		
<ul> <li>Density at 20 °C:</li> <li>Relative density</li> <li>Vapour density</li> <li>Evaporation rate</li> </ul>	0.99 g/cm <sup>3</sup> Not determined. Not determined. Not applicable.		
<ul> <li>Solubility in / Miscibility with water:</li> </ul>	Immiscible / 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.		
<ul> <li>Solvent content:</li> <li>VOC (EU)</li> <li>VOC (EC)</li> </ul>	152.9 g/l 15.44 %		
• 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.



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acc. to (EC) No 1907/2006, as amended by UK SI 2019/758 Printing date 07.09.2021 Version number 6 Revision: 06.09.2021 Trade name: illbruck FM330 • **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:

#### CAS: 26447-40-5 methylenediphenyl diisocyanate

LD50 >2,000 mg/kg (rat) Oral LD50 Dermal >9,400 mg/kg (rabbit) Inhalative LC50/1 h 1.5 mg/L (rat)

#### CAS: 9082-00-2 Ethoxylated/propoxylated glycerol

>500 mg/kg (rat) Oral LD50

LD50 >2,000 mg/kg (rabbit) Dermal

## CAS: 25791-96-2 Glycerol, propoxylated

1,999 mg/kg (rat) Oral LD50

## CAS: 1244733-77-4 tris(2-chloro-1-methylethyl)phosphate

LD50 632 mg/kg (rat) Oral

#### · 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.

· Additional toxicological information:

## • 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** 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.

GR



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SECTION 12: E	SECTION 12: Ecological information				
· 12.1 Toxicity	· 12.1 Toxicity				
• Aquatic toxicity:	-				
CAS: 26447-40-5	methylenediphenyl diisocyanate				
LC50/96 h (static)	>1,000 mg/L (brachydanio rerio) (OESO 203)				
EC50/24 h (static)	>1,000 mg/L (daphnia magna) (OESO 202)				
EC50/72 h (static)	>1,640 mg/L (scenedesmus subspicatus) (OESO 201)				
CAS: 9082-00-2 E	thoxylated/propoxylated glycerol				
LC50/48 h	>100 mg/L (brachydanio rerio)				
EC50/48 h	>100 mg/L (daphnia magna)				
EC50/72 h	>1,000 mg/L (scenedesmus capricornutum)				
CAS: 1244733-77	-4 tris(2-chloro-1-methylethyl)phosphate				
LC50/96 h	51 mg/L (pimephales promelas)				
	and degradability No further relevant information available.				
	n: The product is not easily biodegradable.				
	ative potential No further relevant information available.				
-	oil No further relevant information available.				
· Ecotoxical effects	-				
	methylenediphenyl diisocyanate				
	00 mg/kg (eisenia foetida) (OESO 207)				
	ng/L (daphnia magna) (OESO 202)				
	00 mg/kg (avea sativa) (OESO 208)				
	0 mg/kg (lactuca sativa) (OESO 208)				
substances	n: ains no substances in Annex I to Directive EC 1005/2009 concerning ozone depletir <b>BT and vPvB assessment</b>				
• <b>PBT:</b> Not applicab					
• <b>vPvB:</b> Not applica					
· 12.6 Other advers	se effects No further relevant information available.				
<ul> <li>13.1 Waste treatn</li> <li>Recommendation</li> </ul>	1				
-	sed together with household garbage. Do not allow product to reach sewage system.				
European waste	•				
0	pressure containers other than those mentioned in 16 05 04				
15 01 04 metallic					
	(Contd. on page 1				



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HP3				
	Flammable			
HP4	Irritant - skin irritation and eye damage			
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity			
HP6	Acute Toxicity			
HP7	Carcinogenic			
HP13	Sensitising			
	ned packaging: mendation: Disposal must be made acco	ording to official regulations.		
SECTI	ON 14: Transport information			
-	I-Number IDG, IATA	UN1950		
· 14.2 UN · ADR · IMDG · IATA	l proper shipping name	1950 AEROSOLS 1950 AEROSOLS AEROSOLS AEROSOLS, flammable		
	anenorr nazara class(as)			
· ADR · Class · Label	ansport hazard class(es)	2 5F Gases. 2.1		
· ADR				
· ADR · Class · Label · IMDG, I · Class · Label · Class · Label · 14.4 Pa		2.1		
ADR Class Class Label IMDG, I Class Class Label 14.4 Pa ADR, IN 14.5 En	ATA cking group	2.1 2.1 2.1		
<ul> <li>ADR</li> <li>Class</li> <li>Label</li> <li>IMDG, I</li> <li>IMDG, I</li> <li>Class</li> <li>Label</li> <li>14.4 Pa</li> <li>ADR, IN</li> <li>14.5 En</li> <li>Marine</li> <li>14.6 Sp</li> </ul>	ATA cking group IDG, IATA vironmental hazards:	2.1 2.1 2.1 Void		



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Printing date 07.09.2021 Version number 6 Revision: 06.09.2021 Trade name: illbruck FM330 (Contd. of page 10) · EMS Number: F-D,S-U Stowage Code SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living guarters. 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 Annex 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 ·IMDG · Limited quantities (LQ) 1L • Excepted quantities (EQ) Code: E0 Not permitted as Excepted Quantity **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 "EU-CLP" Regulation (EC) No 1272/2008 (OJ L 353, 31.12.2008, p.1)
 "EU-REACH" Regulation (EC) No 1907/2006 (OJ L 396, 30.12.2006, p.1, with subsequent amendments) COMMISSION REGULATION (EU) 2020/878 of 18 June 2020.
 75/324/EEC relating to aerosol dispensers HSE EH40/2005 Workplace Exposure Limits (as amended)
 Guidance on the classification and assessment of waste | Technical Guidance WM3 (1st edition 2015)
 "GB-CLP" The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019

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Directive 2012/18/EU Qualifying quantity (tonnes) for t	nendment etc.) (EU Exit) Regulations the application of lower-tier require the application of upper-tier require	ments 150 t
· National regulations:		
<ul> <li>Information about limitation of u Employment restrictions concerning Employment restrictions concerning</li> </ul>		t be observed.
	<b>d prohibitive regulations</b> No further <b>t:</b> A Chemical Safety Assessment has	
	<b>tion</b> present knowledge. However, this sh hall not establish a legally valid contra	
H335 May cause respiratory irritation H351 Suspected of causing cancer	symptoms or breathing difficulties if i	
<ul> <li>Department issuing SDS: Prepared and verified in accordar 0.2.3.</li> </ul>	nce with "REACH" Regulation (EC)	No 1907/2006, Annex II, Part A,
<ul> <li>Abbreviations and acronyms: ADR: Accord relatif au transport internation International Carriage of Dangerous Goods IMDG: International Maritime Code for Dan IATA: International Air Transport Association GHS: Globally Harmonised System of Class EINECS: European Inventory of Existing C ELINCS: European List of Notified Chemic CAS: Chemical Abstracts Service (division VOC: Volatile Organic Compounds (USA, I PNEC: Predicted No-Effect Concentration LC50: Lethal concentration, 50 percent D50: Lethal dose, 50 percent</li> <li>PBT: Persistent, Bioaccumulative and Toxi SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumu Flam. Gas 1A: Flammable gases – Catego</li> </ul>	ngerous Goods on esification and Labelling of Chemicals ommercial Chemical Substances al Substances of the American Chemical Society) EU) (REACH) c lative	te (European Agreement Concerning the (Contd. on page 13)



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Aerosol 1: Aerosols – Category 1 Press. Gas (Comp.): 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.