

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 02.04.2019

Version number 8

Revision: 02.04.2019

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**

- Trade name: illbruck FM310

- **MSDS code:** A-I-FM310

- **1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

- **Application of the substance / the mixture** Sealant

- **1.3 Details of the supplier of the safety data sheet**

- **Manufacturer/Supplier:**

tremco illbruck Productie B.V.

Vlietskade 1032, 4241 WC Arkel

T: +31 (0) 183568000, F: +31 (0) 183568100

msds@tremco-illbruck.com

- **Further information obtainable from:**

tremco illbruck Ltd

Coupland Road, Hindley Green, Wigan, WN2 4HT

T: +44 (0) 1942251400, F: +44 (0) 1942251410

www.tremco-illbruck.co.uk, uk.info@tremco-illbruck.com

- **1.4 Emergency telephone number:**

During office hours tel.: +44 (0) 1942251400. At all other times it is recommended to call NHS 111 (England/Wales/Scotland), 01 809 2166 (ROI), or otherwise to contact a doctor.

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**

- **Classification according to Regulation (EC) No 1272/2008**

Aerosol 1      H222-H229      Extremely flammable aerosol. Pressurised container: 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 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 or repeated exposure.

- **2.2 Label elements**

- **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

(Contd. on page 2)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 02.04.2019

Version number 8

Revision: 02.04.2019

**Trade name: illbruck FM310**

(Contd. of page 1)

- **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.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P261 Avoid breathing 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:**

CAS: 9016-87-9	diphenylmethanediisocyanate, isomers and homologues 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	30-<50%
EC number: 911-815-4 Reg.nr.: 01-2119486772-26-xxxx	tris(2-chloro-1-methylethyl)phosphate 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 (Comp.), H280	10-<20%

(Contd. on page 3)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 02.04.2019

Version number 8

Revision: 02.04.2019

**Trade name: illbruck FM310**

(Contd. of page 2)

CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27-xxxx	isobutane Flam. Gas 1, H220; Press. Gas (Comp.), H280	5-<10%
CAS: 25791-96-2 NLP: 500-044-5	Glycerol, propoxylated Acute Tox. 4, H302	5-<10%
CAS: 9082-00-2	Ethoxylated/propoxylated glycerol Acute Tox. 4, H302	5-<10%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21-xxxx	propane Flam. Gas 1, H220; Press. Gas (Comp.), H280	1-<5%

- **SVHC -**

- **Additional information:**

For the wording of the listed hazard phrases refer to section 16.

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

Carbon dioxide (CO<sub>2</sub>)

## 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.

Immediately remove all soiled and contaminated clothing

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**

Harmful if inhaled.

Irritating to eyes, respiratory system and skin.

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Suspected of causing cancer.

May cause damage to organs through prolonged or repeated exposure.

- **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:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **For safety reasons unsuitable extinguishing agents:** Water with full jet

(Contd. on page 4)

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

Printing date 02.04.2019

Version number 8

Revision: 02.04.2019

**Trade name: illbruck FM310**

(Contd. of page 3)

- **5.2 Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.  
Carbon monoxide (CO)  
Carbon dioxide (CO<sub>2</sub>)  
Nitrogen oxides (NO<sub>x</sub>)  
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.  
Avoid contact with the eyes and skin.  
Ensure adequate ventilation.
- **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.  
Avoid contact with the eyes and skin.  
Avoid breathing vapours/spray.  
Wear suitable protective clothing and gloves.  
The usual precautionary measures are to be adhered to when handling chemicals.
- **Information about fire - and explosion protection:**  
Extremely flammable aerosol.  
Pressurised container: May burst if heated.  
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.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- **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:**  
Store in cool, dry conditions in well sealed receptacles.

(Contd. on page 5)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 02.04.2019

Version number 8

Revision: 02.04.2019

**Trade name: illbruck FM310**

(Contd. of page 4)

Do not seal receptacle gas tight.

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:****CAS: 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

**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

· **DNELs**· **Long term effects****CAS: 9016-87-9 diphenylmethanediisocyanate, isomers and homologues**

Inhalative	industrial	0.05 mg/m <sup>3</sup> (workers) (systemic and local effects)
	consumer	0.025 mg/m <sup>3</sup> (general public) (systemic and local effects)

**tris(2-chloro-1-methylethyl)phosphate**

Oral	consumer	0.52 mg/kg/24h (general public) (systemic effects)
Dermal	industrial	2.08 mg/kg/24h (workers) (systemic effects)
	consumer	1.04 mg/kg/24h (general public) (systemic effects)
Inhalative	industrial	5.82 mg/m <sup>3</sup> (workers) (systemic effects)
	consumer	1.46 mg/m <sup>3</sup> (general public) (systemic effects)

**CAS: 115-10-6 dimethyl ether**

Inhalative	industrial	1,894 mg/m <sup>3</sup> (workers) (systemic effects)
	consumer	471 mg/m <sup>3</sup> (general public) (systemic effects)

· **Short term effects****CAS: 9016-87-9 diphenylmethanediisocyanate, isomers and homologues**

Dermal	industrial	50 mg/kg/24h (workers) (systemic effects)
Inhalative	industrial	0.1 mg/m <sup>3</sup> (workers) (systemic and local effects)
	consumer	0.05 mg/m <sup>3</sup> (general public) (local effects)

**tris(2-chloro-1-methylethyl)phosphate**

Dermal	industrial	8 mg/kg/24h (workers) (systemic effects)
	consumer	4 mg/kg/24h (general public) (systemic effects)
Inhalative	industrial	22.4 mg/m <sup>3</sup> (workers) (systemic effects)
	consumer	11.2 mg/m <sup>3</sup> (general public) (systemic effects)

(Contd. on page 6)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 02.04.2019

Version number 8

Revision: 02.04.2019

Trade name: illbruck FM310

(Contd. of page 5)

- **PNECs**

**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 Occupational Exposure Limit Values for possible hazards during processing:**

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

Carbon dioxide (CO<sub>2</sub>)

- **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.

Ensure that washing facilities are available at the work place.

Avoid contact with the eyes and skin.

Avoid breathing dust/fume/gas/mist/vapours/spray.

- **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**

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.4$  mm

Butyl rubber, BR

Recommended thickness of the material:  $\geq 0.7$  mm

(Contd. on page 7)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 02.04.2019

Version number 8

Revision: 02.04.2019

Trade name: illbruck FM310

(Contd. of page 6)

- **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).

- **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:** Aerosol  
**Colour:** According to product specification

- **Odour:** Characteristic

- **Odour threshold:** Not determined.

- **pH-value:** Not determined.

- **Melting point/freezing point:** Not applicable, as aerosol.  
Undetermined.

- **Initial boiling point and boiling range:** -24 °C

- **Flash point:** -82 °C

- **Flammability (solid, gas):** Not applicable.

- **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:** 3.0 Vol %  
**Upper:** 18.6 Vol %

- **Vapour pressure at 20 °C:** 5200 hPa

- **Density at 20 °C:** 0.97 g/cm<sup>3</sup>

- **Relative density** Not determined.

- **Vapour density** Not determined.

- **Evaporation rate** Not applicable.

- **Solubility in / Miscibility with water:**

Immiscible / difficult to mix.

(Contd. on page 8)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 02.04.2019

Version number 8

Revision: 02.04.2019

**Trade name: illbruck FM310**

(Contd. of page 7)

- **Partition coefficient: n-octanol/water:** Not determined.
- **Viscosity:**
  - Dynamic:** Not determined.
  - Kinematic:** Not determined.
- **Solvent content:**
  - VOC (EU)** 206.6 g/l
  - VOC (EC)** 21.30 %
- **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:**  
Formation of toxic gases is possible during heating or in case of fire.  
Carbon monoxide and carbon dioxide  
Nitrogen oxides (NO<sub>x</sub>)  
Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:  
Hydrogen cyanide (prussic acid)

### SECTION 11: Toxicological information

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

- **LD/LC50 values relevant for classification:**

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

Oral	LD50	>10,000 mg/kg (rat)
Dermal	LD50	>10,000 mg/kg (rabbit)
Inhalative	LC50/4 h	1.5 mg/L (rat)

#### tris(2-chloro-1-methylethyl)phosphate

Oral	LD50	632 mg/kg (rat)
------	------	-----------------

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

Oral	LD50	1,999 mg/kg (rat)
------	------	-------------------

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

Oral	LD50	>500 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)

(Contd. on page 9)

GB



## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 02.04.2019

Version number 8

Revision: 02.04.2019

Trade name: illbruck FM310

(Contd. of page 8)

- **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 (carcinogenicity, 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.

## SECTION 12: Ecological information

### · 12.1 Toxicity

#### · Aquatic toxicity:

#### **CAS: 9016-87-9 diphenylmethanediisocyanate, isomers and homologues**

LC0/96 h &gt;1,000 mg/L (brachydanio rerio)

EC50/24 h &gt;1,000 mg/L (daphnia magna)

#### **tris(2-chloro-1-methylethyl)phosphate**

LC50/96 h 51 mg/L (pimephales promelas)

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

LC50/48 h &gt;100 mg/L (brachydanio rerio)

EC50/48 h &gt;100 mg/L (daphnia magna)

EC50/72 h &gt;1,000 mg/L (scenedesmus capricornutum)

- **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.

#### · Ecotoxicological effects:

#### **CAS: 9016-87-9 diphenylmethanediisocyanate, isomers and homologues**

NOEC/21 d &gt;10 mg/L (daphnia magna)

#### · 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.

(Contd. on page 10)

GB

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 02.04.2019

Version number 8

Revision: 02.04.2019

Trade name: illbruck FM310

(Contd. of page 9)

· **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Disposal must be made according to official regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Do not pierce or burn, even after use.

· **European waste catalogue**

16 05 04*	gases in pressure containers (including halons) containing hazardous substances
08 05 01*	waste isocyanates
HP 3	Flammable
HP 4	Irritant - skin irritation and eye damage
HP 5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP 7	Carcinogenic
HP 13	Sensitising

· **Uncleaned packaging:**

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

### SECTION 14: Transport information

· **14.1 UN-Number**

· **ADR, IMDG, IATA** UN1950

· **14.2 UN proper shipping name**

· **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

(Contd. on page 11)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 02.04.2019

Version number 8

Revision: 02.04.2019

**Trade name: illbruck FM310**

(Contd. of page 10)

· <b>Label</b>	2.1
· <b>14.4 Packing group</b> · <b>ADR, IMDG, IATA</b>	Void
· <b>14.5 Environmental hazards:</b> · <b>Marine pollutant:</b>	No
· <b>14.6 Special precautions for user</b> · <b>Danger code (Kemler):</b> · <b>EMS Number:</b> · <b>Stowage Code</b>  · <b>Segregation Code</b>	Warning: Gases. - F-D,S-U 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 quarters. 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.
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>  · <b>Transport category</b> · <b>Tunnel restriction code</b>	1L Code: E0 Not permitted as Excepted Quantity 2 D
· <b>IMDG</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	1L Code: E0 Not permitted as Excepted Quantity
· <b>UN "Model Regulation":</b>	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.

HSE EH40/2005 Workplace Exposure Limits (as amended)

Guidance on the classification and assessment of waste | Technical Guidance WM3 (1st edition 2015)  
2001/118/EC as regards the list of wastes

(Contd. on page 12)

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

Printing date 02.04.2019

Version number 8

Revision: 02.04.2019

**Trade name: illbruck FM310**

(Contd. of page 11)

2008/98/EC on waste

- **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
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **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.

- **Department issuing SDS:**

Prepared and verified in accordance with "REACH" Regulation (EC) No 1907/2006, Annex II, Part A, 0.2.3.

- **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)  
 PNEC: Predicted No-Effect Concentration (REACH)  
 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 (Comp.): Gases under pressure – Compressed gas  
 Acute Tox. 4: Acute toxicity – Category 4

(Contd. on page 13)

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

Printing date 02.04.2019

Version number 8

Revision: 02.04.2019

**Trade name: illbruck FM310**

(Contd. of page 12)

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