illbruck

Safety data sheet

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

Printing date 10.01.2022 Version number 5 Revision: 10.01.2022

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

- · 1.1 Product identifier
- · Trade name: illbruck FM365
- · MSDS code: A-I-FM365
- · 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 CPG Netherlands B.V. Vlietskade 1032, 4241 WC Arkel T: +31 (0) 183568000, F: +31 (0) 183568100 msds@cpg-europe.com

· Further information obtainable from:

Tremco CPG UK Ltd Coupland Road, Hindley Green, Wigan, WN2 4HT T: +44 (0) 1942251400, F: +44 (0) 1942251410 www.cpg-europe.com, info.uk@cpg-europe.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), your local GP/pharmacist (NI), 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.
	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 prolonged or repeated exposure.
	Aquatic Chronic 4	H413	May cause long lasting harmful effects to aquatic life.
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· 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)

illbruck

Safety data sheet

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

Printing date 10.01.2022 Version number 5 Revision: 10.01.2022

Trade name: illbruck FM365

(Contd. of page 1)

· Hazard pictograms







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.
11045	Causes akin imitation

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.

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

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.

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.

· **vPvB:** Not applicable.

- GB

(Contd. on page 3)



Printing date 10.01.2022 Version number 5 Revision: 10.01.2022

Trade name: illbruck FM365

(Contd. of page 2)

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· **Description:** Active substance with propellant

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 Dangerous components: 		
CAS: 9016-87-9 EC number: 618-498-9	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%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27-xxxx	isobutane Flam. Gas 1A, H220; Press. Gas (Comp.), H280	10-<20%
CAS: 115-10-6 EINECS: 204-065-8 Reg.nr.: 01-2119472128-37-xxxx	dimethyl ether Flam. Gas 1A, H220; Press. Gas (Comp.), H280	10-<20%
CAS: 85535-85-9 EINECS: 287-477-0 Reg.nr.: 01-2119519269-33-xxxx	alkanes, C14-17, chloro Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Lact., H362	5-<10%
CAS: 9082-00-2	Ethoxylated/propoxylated glycerol Acute Tox. 4, H302	5-<10%
CAS: 25791-96-2 NLP: 500-044-5	Glycerol, propoxylated Acute Tox. 4, H302	5-<10%
CAS: 1244733-77-4 EC number: 807-935-0 Reg.nr.: 01-2119486772-26-xxxx	tris(2-chloro-1-methylethyl)phosphate Acute Tox. 4, H302	1-<5%
CAS: 77-99-6 EINECS: 201-074-9 Reg.nr.: 01-2119486799-10-xxxx	propylidynetrimethanol Repr. 2, H361fd	0.1-<1%

·SVHC

CAS: 85535-85-9 alkanes, C14-17, chloro

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 (CO2)

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.

(Contd. on page 4)

illbruck

Safety data sheet

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

Printing date 10.01.2022 Version number 5 Revision: 10.01.2022

Trade name: illbruck FM365

(Contd. of page 3)

· 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.

- · 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
- · 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.

(Contd. on page 5)



Printing date 10.01.2022 Version number 5 Revision: 10.01.2022

Trade name: illbruck FM365

(Contd. of page 4)

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

- · 8.1 Control parameters
- · Additional information about design of technical facilities: No further data: see item 7.

· Ingre	· Ingredients with limit values that require monitoring at the workplace:		
CAS	CAS: 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		
CAS: 115-10-6 dimethyl ether			
WEL	Short-term value: 958 mg/m³, 500 ppm Long-term value: 766 mg/m³, 400 ppm		
· PNECs			

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

PNEC	1 mg/L (fresh water)
	10 mg/L (intermittent release)
	0.1 mg/L (salt water)

CAS: 115-10-6 dimethyl ether

PNEC 0.045 mg/kg (soil)

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)

(Contd. on page 6)



Safety data sheet

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

Printing date 10.01.2022 Version number 5 Revision: 10.01.2022

Trade name: illbruck FM365

	(Contd. of page 5)
	0.069 mg/kg (sediment (salt water))
CAS: 1	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))

- · 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.

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: ≥ 0.7 mm

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 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

(Contd. on page 7)



Printing date 10.01.2022 Version number 5 Revision: 10.01.2022

Trade name: illbruck FM365

(Contd. of page 6)

· 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: CharacteristicOdour threshold: Not determined.

• **pH-value:** Mixture reacts violently with water.

• Melting point/freezing point: Not applicable, as aerosol.

Undetermined.

· Initial boiling point and boiling range: Not applicable, as aerosol.

· Flash point: -82 °C

Flammability (solid, gas): Not applicable.

Ignition temperature: 460 °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.

· Explosion limits:

Lower: 1.8 Vol % **Upper:** 18.6 Vol %

· Vapour pressure at 20 °C: 5,200 hPa

Density at 20 °C: 0.97 g/cm³

Relative density
 Vapour density
 Evaporation rate
 Not determined.
 Not applicable.

· Solubility in / Miscibility with

water: Immiscible / difficult to mix.

· Partition coefficient: n-octanol/water: Not determined.

(Contd. on page 8)



Safety data sheet

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

Printing date 10.01.2022 Version number 5 Revision: 10.01.2022

Trade name: illbruck FM365

		(Contd. of page 7)
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
VOC (EU)	221.6 g/l	
VOC (EC)	22.85 %	
· 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.

· LD/LC50 values relevant for classification:					
CAS: 901	CAS: 9016-87-9 diphenylmethanediisocyanate, isomers and homologues				
Oral	LD50	>10,000 mg/kg (rat)			
Dermal	LD50	>10,000 mg/kg (rabbit)			
Inhalative	Inhalative LC50/4 h 1.5 mg/L (rat)				
CAS: 908	2-00-2 Eth	oxylated/propoxylated glycerol			
Oral	LD50	>500 mg/kg (rat)			
Dermal	LD50	>2,000 mg/kg (rabbit)			
CAS: 257	91-96-2 GI	ycerol, propoxylated			
Oral	LD50	1,999 mg/kg (rat)			
CAS: 124	4733-77-4	tris(2-chloro-1-methylethyl)phosphate			
Oral	LD50	632 mg/kg (rat)			
CAS: 77-	CAS: 77-99-6 propylidynetrimethanol				
Oral	LD50	14,100 mg/kg (rat)			
	•	(Contd. on page 9			

, GB



Revision: 10.01.2022

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

Version number 5

Trade name: illbruck FM365

Printing date 10.01.2022

(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.

- · 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

May cause harm to breast-fed children.

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	>1,000 mg/L (brachydanio rerio)		
EC50/24 h	>1,000 mg/L (daphnia magna)		
CAS: 9082-00-2 Ethoxylated/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)		
. 12.2 Paraistance and degradability No further relevant information evailable			

- 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.

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

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

(Contd. on page 10)



Printing date 10.01.2022 Version number 5 Revision: 10.01.2022

Trade name: illbruck FM365

(Contd. of page 9)

· 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 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 04*	16 05 04* gases in pressure containers (including halons) containing hazardous substances		
08 05 01*	waste isocyanates		
HP3 Flammable			
HP4 Irritant - skin irritation and eye damage			
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity		
HP7 Carcinogenic			
HP13	Sensitising		
HP14	Ecotoxic		

- · Uncleaned packaging:
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

MARINE
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(Contd. on page 11)



Version number 5 Printing date 10.01.2022 Revision: 10.01.2022

Trado namo: illbruck EM365

Trade name: illbruck FM365	
	(Contd. of page 10)
· IATA	AEROSOLS, flammable
· 14.3 Transport hazard class(es)	
· ADR	
· Class	2 5F Gases.
· Label	2.1
· IMDG	
	0.4.0
· Class · Label	2.1 Gases. 2.1
· IATA	
· Class	2.1 Gases.
· 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)
· 14.6 Special precautions for user · Hazard identification number (Kemler code):	Warning: Gases.
EMS Number: Stowage Code	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.
· 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:

(Contd. on page 12)



Safety data sheet

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

Printing date 10.01.2022 Version number 5 Revision: 10.01.2022

ade name: illbruck FM365	
	(Contd. of page 11)
	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 An Marpol and the IBC Code 	nex II of Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E0 Not permitted as Excepted Quantity
· Transport category · Tunnel restriction code	2 D
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L 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

"UK-REACH" The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020

- · 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.

• Other regulations, limitations and prohibitive regulations No further relevant information available.

(Contd. on page 13)



Printing date 10.01.2022 Version number 5 Revision: 10.01.2022

Trade name: illbruck FM365

(Contd. of page 12)

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.
- Harmful if swallowed. H302
- 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.
- H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
- 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.

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 relatif au transport international 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 1A: Flammable gases - Category 1A

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

Lact.: Reproductive toxicity – effects on or via lactation

(Contd. on page 14)



(Contd. of page 13)

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

Printing date 10.01.2022 Version number 5 Revision: 10.01.2022

Trade name: illbruck FM365

Repr. 2: Reproductive toxicity – Category 2 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

* * Data compared to the previous version altered.

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