Safety data sheet
acc. (EC) 1907/2006, as amended by UK SI 2019/758

Printing date 08.11.2022 Version number 14 Revision: 21.06.2022

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

· **1.1 Product identifier**

· **Trade name: illbruck PU902**

· **MSDS code:** A-I-PU902
· **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** Adhesives

· **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**
Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

· **2.2 Label elements**
· **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the GB CLP regulation.
· **Hazard pictograms**

GHS08

· **Signal word** Danger

· **Contains:**
4,4'-methylenediphenyl diisocyanate
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

(Contd. on page 2)

Safety data sheet
acc. (EC) 1907/2006, as amended by UK SI 2019/758

Printing date 08.11.2022 Version number 14 Revision: 21.06.2022

Trade name: illbruck PU902

(Contd. of page 1)

· **Hazard statements**
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
· **Precautionary statements**
P261 Avoid breathing vapours.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
· **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.

*
SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**
· **Description:** Mixture of substances listed below with non-hazardous additions.

· **Dangerous components:**		
CAS: 9002-86-2 EC number: 618-338-8	polyvinyl chloride substance with a Community workplace exposure limit	30-<50%
EC number: 905-588-0 Reg.nr.: 01-2119488216-32-xxxx	xylene (mix) Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	5-<10%
CAS: 1309-37-1 EINECS: 215-168-2 Reg.nr.: 01-2119457614-35-xxxx	diiron trioxide substance with a Community workplace exposure limit	1-<5%
CAS: 13463-67-7 EINECS: 236-675-5 Reg.nr.: 01-2119489379-17-xxxx	titanium dioxide substance with a Community workplace exposure limit	1-<5%
CAS: 101-68-8 EINECS: 202-966-0 Reg.nr.: 01-2119457014-47-xxxx	4,4'-methylenediphenyl diisocyanate 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	0.1-<1%

· **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:
Fillers are encapsulated within the liquid and therefore not expected to be released from the product under normal conditions of use.
Carbon dioxide (CO_2)

(Contd. on page 3)

Safety data sheet
acc. (EC) 1907/2006, as amended by UK SI 2019/758

Printing date 08.11.2022 Version number 14 Revision: 21.06.2022

Trade name: illbruck PU902

(Contd. of page 2)

SECTION 4: First aid measures

· **4.1 Description of first aid measures**
· **General information:** Immediately remove any clothing soiled by the product.
· **After inhalation:**
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
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:** If symptoms persist consult doctor.
· **Information for doctor:** No further relevant information available.
· **4.2 Most important symptoms and effects, both acute and delayed**
Dizziness
Headache
Nausea
Contains isocyanates. May produce an allergic reaction.
· **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:**
Carbon dioxide (CO2)
Foam
Fire-extinguishing powder
· **For safety reasons unsuitable extinguishing agents:** Water with full jet
· **5.2 Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
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**
Ensure adequate ventilation.

(Contd. on page 4)

Safety data sheet
acc. (EC) 1907/2006, as amended by UK SI 2019/758

Printing date 08.11.2022 Version number 14 Revision: 21.06.2022

Trade name: illbruck PU902

(Contd. of page 3)

Keep away from ignition sources.
· **6.2 Environmental precautions:** Do not allow product to reach sewage system or any water course.
· **6.3 Methods and material for containment and cleaning up:**
Pick up mechanically.
Send for recovery or disposal in suitable receptacles.
Do not seal receptacles gas-tight.
· **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**
Open and handle receptacle with care.
Do not handle until all safety precautions have been read and understood.
Do not breathe vapour.
Avoid contact with the eyes and skin.
Do not eat, drink, smoke or sniff while working.
Ensure that washing facilities are available at the work place.
Wash contaminated clothing before reuse.
Use personal protective equipment as required.
· **Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.

· **7.2 Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** Store in a cool location.
· **Information about storage in one common storage facility:** Store away from oxidising agents.
· **Further information about storage conditions:** Protect from humidity and water.
· **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**	
CAS: 9002-86-2 polyvinyl chloride	
WEL	Long-term value: 10* 4** mg/m³ *inhalable dust **respirable dust
CAS: 1309-37-1 diiron trioxide	
WEL	Short-term value: 10* mg/m³ Long-term value: 5* 10** 4*** mg/m³ *fume (as Fe),**total respirable,***respirable

(Contd. on page 5)

Safety data sheet
acc. (EC) 1907/2006, as amended by UK SI 2019/758

Printing date 08.11.2022 Version number 14 Revision: 21.06.2022

Trade name: illbruck PU902

(Contd. of page 4)

CAS: 13463-67-7 titanium dioxide	
WEL	Long-term value: 10* 4** mg/m³ *total inhalable **respirable

CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate	
WEL	Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO

· **PNECs**

xylene (mix)	
PNEC	0.327 mg/L (fresh water) 6.58 mg/L (sewage treatment plant) 0.327 mg/L (intermittent release) 0.327 mg/L (salt water)
PNEC	2.31 mg/kg (soil) 12.46 mg/kg (sediment (salt water)) 12.46 mg/kg (sediment (fresh water))

CAS: 13463-67-7 titanium dioxide	
PNEC	0.184 mg/L (fresh water) 100 mg/L (sewage treatment plant) 0.193 mg/L (intermittent release) 0.0184 mg/L (salt water)
PNEC	100 mg/kg (soil) 100 mg/kg (sediment (salt water)) 1,000 mg/kg (sediment (fresh water))

CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate	
PNEC	1 mg/L (fresh water) 1 mg/L (sewage treatment plant) 10 mg/L (intermittent release) 0.1 mg/L (salt water)
PNEC	1 mg/kg (soil)

· **Ingredients with biological limit values:**

CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate	
BMGV	1 µmol creatinine/mol Medium: urine Sampling time: At the end of the period od exposure Parameter: isocyanate-derived diamine

(Contd. on page 6)

Safety data sheet
acc. (EC) 1907/2006, as amended by UK SI 2019/758

Trade name: illbruck PU902

(Contd. of page 5)

· **Additional information:**
Fillers are encapsulated within the liquid and therefore not expected to be released from the product under normal conditions of use.

· **8.2 Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Wash hands before breaks and at the end of work.
Avoid close or long term contact with the 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.
Short term filter device:
Respirator with filter for organic vapour.
Filter A/P
Use suitable respiratory protective device in case of insufficient ventilation.
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
Neoprene gloves
Fluorocarbon rubber (Viton)
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· **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.
· **Eye protection:** Safety glasses
· **Body protection:**

Protective work clothing

(Contd. on page 7)

Safety data sheet
acc. (EC) 1907/2006, as amended by UK SI 2019/758

Printing date 08.11.2022 Version number 14 Revision: 21.06.2022

Trade name: illbruck PU902

(Contd. of page 6)

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Pasty
Colour:	According to product specification
· **Odour:**	Light
· **pH-value:**	Not determined.
· **Melting point/freezing point:**	Undetermined.
· **Initial boiling point and boiling range:**	137 °C
· **Flash point:**	>70 °C
· **Flammability (solid, gas):**	The product is not subject to classification because its speed of combustion is lower than the limit of the regulation
· **Explosive properties:**	Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.
· **Explosion limits:**	
Lower:	0.6 Vol %
Upper:	8.0 Vol %
· **Vapour pressure:**	Not determined.
· **Density at 20 °C:**	1.16 g/cm³
· **Solubility in / Miscibility with water:**	Insoluble.
· **Solvent content:**	
VOC (EU)	< 7 %
· **9.2 Other information**	No further relevant information available.

SECTION 10: Stability and reactivity

· **10.1 Reactivity** Stable
· **10.2 Chemical stability**
· **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
· **10.3 Possibility of hazardous reactions** Reacts with alcohols, amines, aqueous acids and alkalis.
· **10.4 Conditions to avoid**
Water / moisture.
Danger of bursting.
· **10.5 Incompatible materials:** No further relevant information available.
· **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

(Contd. on page 8)

Safety data sheet
acc. (EC) 1907/2006, as amended by UK SI 2019/758

Printing date 08.11.2022 Version number 14 Revision: 21.06.2022

Trade name: illbruck PU902

(Contd. of page 7)

SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**
· **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**		
xylene (mix)		
Oral	LD50	4,300 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)
CAS: 1309-37-1 diiron trioxide		
Oral	LD50	>5,000 mg/kg (rat)
CAS: 13463-67-7 titanium dioxide		
Oral	LD50	>20,000 mg/kg (rat)
Dermal	LD50	>10,000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6.82 mg/L (rat)
CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate		
Oral	LD50	>15,000 mg/kg (rat)
Inhalative	LC50/4 h	1.5 mg/L (rat)

· **Primary irritant effect:**
· **Skin corrosion/irritation** Slight irritation possible.
· **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
· **Respiratory or skin sensitisation**
Contains isocyanates. May produce an allergic reaction.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
· **Additional toxicological information:**
Fillers are encapsulated within the liquid and therefore not expected to be released from the product under normal conditions of use.
· **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
· **Carcinogenicity** Based on available data, the classification criteria are not met.
· **Reproductive toxicity** Based on available data, the classification criteria are not met.
· **STOT-single exposure** Based on available data, the classification criteria are not met.
· **STOT-repeated exposure** Based on available data, the classification criteria are not met.
· **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**	
xylene (mix)	
LC50/96 h	3.77 mg/L (fish)
EC50/48 h	7.4 mg/L (daphnia magna)

(Contd. on page 9)

Safety data sheet
acc. (EC) 1907/2006, as amended by UK SI 2019/758

Printing date 08.11.2022 Version number 14 Revision: 21.06.2022

Trade name: illbruck PU902

(Contd. of page 8)

EC50/72 h	10 mg/L (skelettonema costatum)

CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate

LC50/96 h	>1,000 mg/L (brachydanio rerio)
LC50/24 h	>500 mg/L (brachydanio rerio)
EC50	>100 mg/L (daphnia magna)
EC50/24 h	>1,000 mg/L (daphnia magna)
EC50/72 h	>1,640 mg/L (desmodesmus subspicatus)

· **12.2 Persistence and degradability** No further relevant information available.
· **12.3 Bioaccumulative potential** No further relevant information available.
· **12.4 Mobility in soil** No further relevant information available.

· **Ecotoxical effects:**

CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate

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

· **Additional ecological information:**
· **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
· **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**
2008/98/EC (UK WM3) : n/a

08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances

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

SECTION 14: Transport information

· **14.1 UN-Number**
· **ADR, ADN, IMDG, IATA** Void

· **14.2 UN proper shipping name**
· **ADR** Void
Void

(Contd. on page 10)

Safety data sheet
acc. (EC) 1907/2006, as amended by UK SI 2019/758

Printing date 08.11.2022 Version number 14 Revision: 21.06.2022

Trade name: illbruck PU902

(Contd. of page 9)

· **IMDG, IATA**	Void
· **14.3 Transport hazard class(es)**	
· **ADR, ADN, IMDG, IATA**	
· **Class**	Void
· **14.4 Packing group**	
· **ADR, IMDG, IATA**	Void
· **14.5 Environmental hazards:**	
· **Marine pollutant:**	No
· **14.6 Special precautions for user**	Not applicable.
· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**	Not applicable.
· **UN "Model Regulation":**	Void

SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
HSE EH40/2005 Workplace Exposure Limits (as amended)
Guidance on the classification and assessment of waste | Technical Guidance WM3 (1st edition 2015)
"GB- CLP" UK SI 2019 No. 720 The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019
"UK- REACH" UK SI 2019 No. 758 The UK REACH etc. (Amendment etc.) (EU Exit) Regulations 2019

· **Directive 2012/18/EU**
· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 56a, 74

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**
None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**
None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**
None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**
None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**
None of the ingredients is listed.

(Contd. on page 11)

Safety data sheet
acc. (EC) 1907/2006, as amended by UK SI 2019/758

Printing date 08.11.2022 Version number 14 Revision: 21.06.2022

Trade name: illbruck PU902

(Contd. of page 10)

· **National regulations:**

· **Information about limitation of use:** Employment restrictions concerning juveniles must be observed.

· **Other regulations, limitations and prohibitive regulations** No further relevant information available.
· **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**
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
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 Annex II, Part A, 0.2.3. of "UK- REACH" UK SI 2019 No. 758 The UK REACH etc. (Amendment etc.) (EU Exit) Regulations 2019

· **Abbreviations and acronyms:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
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 (UK 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. Liq. 3: Flammable liquids – Category 3
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

(Contd. on page 12)

Safety data sheet
acc. (EC) 1907/2006, as amended by UK SI 2019/758

Printing date 08.11.2022 Version number 14 Revision: 21.06.2022

Trade name: illbruck PU902

(Contd. of page 11)

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
Asp. Tox. 1: Aspiration hazard – Category 1

· *** Data compared to the previous version altered.**