

## Safety data sheet

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

Printing date 11.07.2025

Version number 7

Revision: 11.07.2025

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

- **1.1 Product identifier**

- Trade name: illbruck PU230

- MSDS code: A-I-PU230

- **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@tremcocpg.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.tremcocpg.eu, info.uk@tremcocpg.com

- **1.4 Emergency telephone number:**

During office hours (Mon-Fri 08:30-17:00 GMT) 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**

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 GB CLP regulation.

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- **Hazard pictograms**



GHS07 GHS08

- **Signal word** Danger

- **Contains:**

methylenediphenyl diisocyanate

- **Hazard statements**

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**

P201 Obtain special instructions before use.

P260 Do not breathe mist/vapours/spray.

P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER/doctor if you feel unwell.

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.

- feica.eu/PUinfo:



- **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.

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· <b>Dangerous components:</b>		
CAS: 26447-40-5 EINECS: 247-714-0 Reg.nr.: 01-2119457015-45-xxxx	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, EUH204 Specific concentration limits: Skin Irrit. 2; H315: C ≥ 5 % Eye Irrit. 2; H319: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0.1 % STOT SE 3; H335: C ≥ 5 %	30-<50%
CAS: 6425-39-4 EINECS: 229-194-7 Reg.nr.: 01-2119969278-20-xxxx	2,2'-dimorpholinodiethylether ----- Eye Irrit. 2, H319	3-<10%

- **EU SVHC** see Section 15
- **GB SVHC** see Section 15
- **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:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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 skin irritation continues, consult a doctor.

##### · **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

##### · **After swallowing:**

Rinse out mouth and then drink plenty of water.

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

Allergic reactions

Breathing difficulty

Nausea

##### · **Hazards** No further relevant information available.

#### · 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

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### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
Carbon dioxide (CO<sub>2</sub>)  
Foam  
Fire-extinguishing powder  
Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Wear fully protective suit.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Remove persons from danger area.  
Wear protective clothing.  
Ensure adequate ventilation.
- **For non-emergency personnel** No further relevant information available.
- **For emergency responders** No further relevant information available.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of contaminated material as waste according to Section 13.  
Ensure adequate ventilation.  
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**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.  
Open and handle receptacle with care.  
Avoid contact with the eyes and skin.
- **Information about fire - and explosion protection:** The product is not flammable.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in unopened original receptacles.

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- **Information about storage in one common storage facility:** Protect from heat and direct sunlight.
- **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed receptacles.  
Protect from humidity and water.  
Storage temperature: +5°C to +25°C
- **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:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

#### · Long term effects

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

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)

##### **CAS: 6425-39-4 2,2'-dimorpholinodiethylether**

Oral	consumer	0.5 mg/kg/24h (general public) (systemic effects)
Dermal	industrial	1 mg/kg/24h (workers) (systemic effects)
	consumer	0.5 mg/kg/24h (general public) (systemic effects)
Inhalative	industrial	7.28 mg/m <sup>3</sup> (workers) (systemic effects)
	consumer	1.8 mg/m <sup>3</sup> (general public) (systemic effects)

#### · Short term effects

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

Oral	consumer	20 mg/kg (general public) (systemic effects)
Dermal	industrial	50 mg/kg (workers) (systemic effects)
	industrial	28.7 mg/cm <sup>2</sup> (workers) (local effects)
	consumer	25 mg/kg (general public) (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) (systemic and local effects)

#### · 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)

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	mg/kg dwt (sediment (fresh water)) (exposure not expected)
<b>CAS: 6425-39-4 2,2'-dimorpholinodiethylether</b>	
PNEC	0.1 mg/L (fresh water) (assessment factors) 100 mg/L (sewage treatment plant) (assessment factors) 1 mg/L (intermittent release) (assessment factors) 0.01 mg/L (marine) (assessment factors)
PNEC	1.58 mg/kg (soil) (equilibrium partitioning) 0.82 mg/kg (sediment (salt water)) (equilibrium partitioning) 8.2 mg/kg (sediment (fresh water)) (equilibrium partitioning) 10 mg/kg (secondary poisoning) (assessment factors)

- **Additional information:**

The lists valid during the making were used as basis.  
HSE EH40/2005 Workplace Exposure Limits (as amended)

- **8.2 Exposure controls**

- **Individual protection measures, such as 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.

- **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.

Filter AXP3

For further guidance,

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

- **Hand protection**



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).

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- **Eye/face 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**

· <b>Colour:</b>	Amber coloured
· <b>Odour:</b>	Characteristic
· <b>Melting point/freezing point:</b>	Undetermined.
· <b>Boiling point or initial boiling point and boiling range</b>	Undetermined.
· <b>Flash point:</b>	>200 °C
· <b>Viscosity:</b>	
· <b>Dynamic at 20 °C:</b>	6000 cps
· <b>Solubility</b>	
· <b>water:</b>	Immiscible / difficult to mix.
· <b>Vapour pressure at 25 °C:</b>	0 hPa (CAS: 9016-87-9 diphenylmethanediisocyanate, isomers and homologues)
· <b>Density and/or relative density</b>	
· <b>Density at 20 °C:</b>	1.1 g/cm <sup>3</sup>

- **9.2 Other information**

· <b>Appearance:</b>	
· <b>Form:</b>	Viscous
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Explosive properties:</b>	Product does not present an explosion hazard.

- **Information with regard to physical hazard classes**

· <b>Explosives</b>	Void
· <b>Flammable gases</b>	Void
· <b>Aerosols</b>	Void
· <b>Oxidising gases</b>	Void
· <b>Gases under pressure</b>	Void

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· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

**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 water.  
Reacts with strong acids and alkali.
- **10.4 Conditions to avoid** Water / moisture.
- **10.5 Incompatible materials:** polyethylene, polypropylene, Teflon® or nylon.
- **10.6 Hazardous decomposition products:** Poisonous gases/vapours

**SECTION 11: Toxicological information**

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· <b>LD/LC50 values relevant for classification:</b>
--

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

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

**CAS: 6425-39-4 2,2'-dimorpholinodiethylether**

Oral	LD50	2,025 mg/kg (rat)
Dermal	LD50	3,038 mg/kg (rabbit)

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.

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- **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.
- **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.
- **Additional toxicological information:**  
Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- **Information on likely routes of exposure** No further relevant information available.
- **Symptoms related to the physical, chemical and toxicological characteristics**  
No further relevant information available.
- **Delayed and immediate effects as well as chronic effects from short and long-term exposure**  
No further relevant information available.
- **11.2 Information on other hazards**

· <b>Endocrine disrupting properties</b>
None of the ingredients is listed.

### SECTION 12: Ecological information

- **12.1 Toxicity**

· <b>Aquatic toxicity:</b>
<b>CAS: 26447-40-5 methylenediphenyl diisocyanate</b>
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)
<b>CAS: 6425-39-4 2,2'-dimorpholinodiethylether</b>
LC50/96 h 2,150 mg/L (fish) (OECD 203)
EC50/48 h >100 mg/L (daphnia magna) (OECD 202)

- **12.2 Persistence and degradability** Moderately / partly biodegradable
- **12.3 Bioaccumulative potential** Low potential for accumulating in organisms
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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- **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

- **12.7 Other adverse effects** No further relevant information available.

- **Ecotoxicological effects:**

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

LC50/14 d	>1,000 mg/kg (eisenia foetida) (OESO 207)
NOEC/21 d	>10 mg/L (daphnia magna) (OESO 202)
NOEC/14 d	>1,000 mg/kg (avea sativa) (OESO 208)
	>1,000 mg/kg (lactuca sativa) (OESO 208)

### 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. Disposal must be made according to official regulations.

- **European waste catalogue**

08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances
HP4	Irritant - skin irritation and eye damage
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP7	Carcinogenic
HP13	Sensitising

- **Uncleaned packaging:**

- **Recommendation:**

Dispose of packaging according to regulations on the disposal of packagings.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

Non contaminated packagings may be recycled.

### SECTION 14: Transport information

- **14.1 UN number or ID number**

- **ADR, ADN, IMDG, IATA**

Void

- **14.2 UN proper shipping name**

- **ADR, ADN, IMDG, IATA**

Void

- **14.3 Transport hazard class(es)**

- **ADR, ADN, IMDG, IATA**

- **Class**

Void

- **14.4 Packing group**

- **ADR, IMDG, IATA**

Void

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- |   |                 |
|---|-----------------|
| <b>· 14.5 Environmental hazards:</b>                                  |                 |
| <b>· Marine pollutant:</b>  | No              |
| <b>· 14.6 Special precautions for user</b>                            | Not applicable. |
| <b>· 14.7 Maritime transport in bulk according to IMO instruments</b> | Not applicable. |
| <b>· UN "Model Regulation":</b>                                       | 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 2020 No. 1577 The UK REACH etc. (Amendment etc.) (EU Exit) Regulations 2020  
The Endocrine Disruptor Lists I, II, III ([www.edlists.org](http://www.edlists.org))

- **Poisons Act**

- **Regulated explosives precursors**

None of the ingredients is listed.

- **Regulated poisons**

None of the ingredients is listed.

- **Reportable explosives precursors**

None of the ingredients is listed.

- **Reportable poisons**

None of the ingredients is listed.

- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 56

- **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.

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· **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.

· **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.

· **Substances of very high concern (SVHC) according to EU REACH, Article 57** Not applicable.

· **Substances of very high concern (SVHC) according to UK REACH** 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**

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.

EUH204 Contains isocyanates. May produce an allergic reaction.

· **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

· **Date of previous version:** 01.04.2022

· **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)

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

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

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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.**

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