

Printing date 14.05.2020

Version number 5

Revision: 06.04.2020

Printing date 14.05.202	20	Version number 5	Revision: 06.04.2020
SECTION 1: undertaking	Identification of	f the substance/mixt	ure and of the company/
· 1.1 Product ident	ifier		
· Trade name: illbr	uck PU230		
No further relevant	tified uses of the sub t information available.	ostance or mixture and uses ture Glue/ Sising agent	advised against
 Manufacturer/Sup Tremco CPG Neth tremco illbruck Pro Vlietskade 1032, 4 	erlands B.V. oductie B.V. 241 WC Arkel 000, F: +31 (0) 183568		
Tremco CPG UK L tremco illbruck Ltd Coupland Road, H T: +44 (0) 194225 www.tremco-illbruck • 1.4 Emergency te During office hou	indley Green, Wigan, ^v 1400, F: +44 (0) 19422 ck.co.uk, uk.info@trem lephone number: rs tel.: +44 (0) 19422	251410 nco-illbruck.com 251400. At all other times it	is recommended to call NHS 111 66 (ROI), or otherwise to contact a
	azards identification		
• 2.1 Classification • Classification acc Acute Tox. 4 Skin Irrit. 2 Eye Irrit. 2	of the substance or cording to Regulation H332 Harmful if inhal H315 Causes skin irr H319 Causes serious	mixture n (EC) No 1272/2008 led. ritation. s eye irritation.	reathing difficulties if inhaled
Skin Sens. 1 Skin Sens. 1 Carc. 2 STOT SE 3 STOT RE 2	H317 May cause an a H351 Suspected of c H335 May cause res	allergic skin reaction. ausing cancer.	
Aquatic Chronic 3	H412 Harmful to aqu	atic life with long lasting effec	iS.
Carc. 2 STOT SE 3 STOT RE 2	H317 May cause an aH351 Suspected of cH335 May cause resH373 May cause dan	causing cancer. piratory irritation. nage to organs through prolor	nged 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)



Printing date 14.05.2020

Version number 5

Revision: 06.04.2020

```
Trade name: illbruck PU230
```

(Contd. of page 1) Hazard pictograms GHS07 GHS08 · Signal word Danger · Contains: methylenediphenyl diisocyanate · Hazard statements 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. H412 Harmful to aquatic life with long lasting effects. **Precautionary statements** P261 Avoid breathing dust/fume/gas/mist/vapours/spray. In case of inadequate ventilation wear respiratory protection. P284 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. · 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: 26447-40-5 30-<50% methylenediphenyl diisocyanate EINECS: 247-714-0 Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Reg.nr.: 01-2119457015-45-xxxx Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 CAS: 28553-12-0 di-"isononyl" phthalate 10-<20% EINECS: 249-079-5 substance with a Community workplace exposure limit Reg.nr.: 01-2119430798-28-xxxx

(Contd. on page 3)



Printing date 14.05.2020

Version number 5

Revision: 06.04.2020

Trade name: illbruck PU230

	(Con	td. of page 2)
CAS: 9082-00-2	Ethoxylated/propoxylated glycerol	1-<5%
	Acute Tox. 4, H302	
CAS: 25791-96-2	Glycerol, propoxylated	1-<5%
NLP: 500-044-5	Acute Tox. 4, H302	
CAS: 6425-39-4	2,2'-dimorpholinodiethylether	1-<5%
EINECS: 229-194-7	Eye Irrit. 2, H319	
Reg.nr.: 01-2119969278-20-xxxx		
CAS: 68479-98-1	diethylmethylbenzenediamine	0.1-<1%
EINECS: 270-877-4	STOT RE 2, H373; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Acute Tox. 4, H312; Eye Irrit.	
87410	2, H319	

· SVHC -

• Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· General information:

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: If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- · 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: 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. Carbon monoxide (CO)

(Contd. on page 4)



Printing date 14.05.2020

Version number 5

Revision: 06.04.2020

Trade name: illbruck PU230

(Contd. of page 3)

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 Remove persons from danger area.
 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground
- 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.
- 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.

· Information about fire - and explosion protection: No special measures required.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- **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: 28553-12-0 di-"isononyl" phthalate

WEL Long-term value: 5 mg/m³

(Contd. on page 5)



Printing date 14.05.2020

Version number 5

Revision: 06.04.2020

Trade name: illbruck PU230

DNELs			(Contd. of pag
	m effects		
CAS: 264	447-40-5 me	thylenediphenyl diisocyanate	
Inhalative	e industrial	0.05 mg/m3 (workers) (systemic and local effects)	
	consumer	0.025 mg/m3 (general public) (systemic and local effects)	
CAS: 642	25-39-4 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	e industrial	7.28 mg/m3 (workers) (systemic effects)	
	consumer	1.8 mg/m3 (general public) (systemic effects)	
Short ter	rm effects	1	
CAS: 264	447-40-5 me	thylenediphenyl diisocyanate	
Oral	consumer	20 mg/kg (general public) (systemic effects)	
Dermal	industrial	50 mg/kg (workers) (systemic effects)	
	industrial	28.7 mg/cm2 (workers) (local effects)	
	consumer	25 mg/kg (general public) (systemic effects)	
Inhalative	e industrial	0.1 mg/m3 (workers) (systemic and local effects)	
	consumer	0.05 mg/m3 (general public) (systemic and local effects)	
PNECs			
CAS: 264	447-40-5 me	thylenediphenyl diisocyanate	
PNEC 1	mg/L (fresh	water)	
1	mg/L (sewa	ge treatment plant)	
1	mg/L (soil)		
1	0 mg/L (spor	adic release)	
0	.1 mg/L (salt	water)	
PNEC m	ng/kg dwt (se	ediment (salt water)) (exposure not expected)	
m	ng/kg dwt (se	ediment (fresh water)) (exposure not expected)	
		dimorpholinodiethylether	
PNEC 0	.1 mg/L (fres	h water) (assessment factors)	
1	00 mg/L (sev	wage treatment plant) (assessment factors)	
1	mg/L (intern	nittent release) (assessment factors)	
0	.01 mg/L (ma	arine) (assessment factors)	
PNEC 1	.58 mg/kg (s	oil) (equilibrium partitioning)	
0	.82 mg/kg (s	ediment (salt water)) (equilibrium partitioning)	
8	.2 mg/kg (se	diment (fresh water)) (equilibrium partitioning)	
1	0 mg/kg (seo	condary poisoning) (assessment factors)	
I			(Contd. on pag



Printing date 14.05.2020

Version number 5

Revision: 06.04.2020

Trade name: illbruck PU230

(Contd. of page 5) • 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. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin. **Respiratory protection:** In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. 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 The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. 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). • Eye protection: Tightly sealed goggles **Body protection:** Protective work clothing

(Contd. on page 7)



Printing date 14.05.2020

Version number 5

Revision: 06.04.2020

Trade name: illbruck PU230

(Contd. of page 6)

SECTION 9: Physical and chemi	cal properties
· 9.1 Information on basic physical and	chemical properties
· General Information	
· Appearance:	
Form:	Fluid
Colour:	According to product specification
 Odour: Odour threshold: 	Characteristic Not determined.
· pH-value:	Not determined.
• Melting point/freezing point:	Undetermined.
· Initial boiling point and boiling range:	
· Flash point:	190 °C
· Flammability (solid, gas):	Not applicable.
· Ignition temperature:	400 °C
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	0.1 Vol %
Upper:	0.2 Vol %
· Vapour pressure:	Not determined.
· Density at 20 °C:	1.07 g/cm³
[.] Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
water:	Immiscible / difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
VOC (EU)	0.0 g/l
VOC (EC)	0.00 %
• 9.2 Other information	No further relevant information available.

(Contd. on page 8)



Revision: 06.04.2020

Printing date 14.05.2020

Version number 5

Trade name: illbruck PU230

(Contd. of page 7)

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: 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: 9082-00-2 Ethoxylated/propoxylated glycerol

Oral LD50 >500 mg/kg (rat)

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

CAS: 25791-96-2 Glycerol, propoxylated

Oral LD50 1,999 mg/kg (rat)

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

Oral LD50 2,025 mg/kg (rat)

Dermal LD50 3,038 mg/kg (rabbit)

CAS: 68479-98-1 diethylmethylbenzenediamine

Oral LD50 738 mg/kg (rat) Dermal LD50 >2,000 mg/kg (rat)

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 (carcinogenity, mutagenicity and toxicity for reproduction)

· Germ cell mutagenicity Based on available data, the classification criteria are not met.

(Contd. on page 9)

*

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



Printing date 14.05.2020

Version number 5

Revision: 06.04.2020

Trade name: illbr	íuck i	PU230
-------------------	--------	-------

STOT-singl May cause r STOT-repea May cause o	of caus ve toxi e expo respirat ated ex damage	icity Based on available data, the classification criteria are not met. Desure tory irritation.	(Contd. of page 8)
SECTION	12: E	cological information	
12.1 Toxicit	y		
Aquatic tox	icity:		
CAS: 26447	'-40-5 I	methylenediphenyl diisocyanate	
LC50/96 h (static)	>1,000 mg/L (brachydanio rerio) (OESO 203)	
EC50/24 h (static)	>1,000 mg/L (daphnia magna) (OESO 202)	
EC50/72 h (static)	>1,640 mg/L (scenedesmus subspicatus) (OESO 201)	
CAS: 9082-	00-2 E	thoxylated/propoxylated glycerol	
LC50/48 h		>100 mg/L (brachydanio rerio)	
EC50/48 h		>100 mg/L (daphnia magna)	
EC50/72 h		>1,000 mg/L (scenedesmus capricornutum)	
	39-4 2,	2'-dimorpholinodiethylether	
LC50/96 h		2,150 mg/L (fish) (OECD 203)	
EC50/48 h		>100 mg/L (daphnia magna) (OECD 202)	
· 12.3 Bioacc · 12.4 Mobilit	cumula ty in so	and degradability No further relevant information available. Itive potential No further relevant information available. In No further relevant information available.	
LC50/14 d		methylenediphenyl diisocyanate 0 mg/kg (eisenia foetida) (OESO 207)	
		ng/L (daphnia magna) (OESO 202) 0 mg/kg (avea sativa) (OESO 208)	
NOEC/14 u		0 mg/kg (lactuca sativa) (OESO 208)	
Additional		ical information:	
· General not			
Do not allov system.	v undil s of Pl	uted product or large quantities of it to reach ground water, water co BT and vPvB assessment	ourse or sewage
• vPvB: Not ap	•		

v**b:** Not applicable.

(Contd. on page 10)



Printing date 14.05.2020

Version number 5

Revision: 06.04.2020

(Contd. of page 9)

Trade name: illbruck PU230

• 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	
----------------------------	--

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 informatio	n	
 14.1 UN-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	
 14.5 Environmental hazards: Marine pollutant: 	No	
 14.6 Special precautions for user 	Not applicable.	
 14.7 Transport in bulk according to Anne Marpol and the IBC Code 	ex II of Not applicable.	
· UN "Model Regulation":	Void	

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 1007/2006 (OJ L 306, 20.12, 2006, p.1, with subsequent amondmente)

"REACH" Regulation (EC) No 1907/2006 (OJ L 396, 30.12.2006, p.1, with subsequent amendments).

(Contd. on page 11)



Printing date 14.05.2020

Version number 5

Revision: 06.04.2020

Trade name: illbruck PU230

(Contd. of page 10) 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 2008/98/EC on waste REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 52a, 56 • 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 H302 Harmful if swallowed. 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. 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 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

Page 12/12

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



Printing date 14.05.2020

Version number 5

Revision: 06.04.2020

Trade name: illbruck PU230

(Contd. of page 11)

GB

PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity - inhalation – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Resp. Sens. 1: Respiratory sensitisation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1 Carc. 2: Carcinogenicity – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 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 3 * * Data compared to the previous version altered.