

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

1.1. Product identifier

Product form : Mixture
 Product name : PUW ETC-B

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

1.2.1. Relevant identified uses

No additional information available

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Siddec
 Industrieweg 10
 2490 Balen - BELGIE
 T +32 14 81 50 01
safety@sidec.be - www.sidec.eu

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number
Belgium	Centre Anti-Poisons/Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn 1 1120 Bruxelles/Brussel	+32 70 245 245

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute Tox. 4 (Inhalation) H332
 Skin Sens. 1B H317
 STOT SE 3 H335
 Aquatic Chronic 3 H412

Full text of H statements : see section 16

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) :

Warning

Hazard statements (CLP) :

H317 - May cause an allergic skin reaction.
 H332 - Harmful if inhaled.
 H335 - May cause respiratory irritation.
 H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) :

P361 - Remove/Take off immediately all contaminated clothing.
 P273 - Avoid release to the environment.
 P280 - Wear Gloves.
 P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
 P362+P364 - Take off contaminated clothing and wash it before reuse.

Extra phrases :

Contains isocyanates. May produce an allergic reaction.

2.3. Other hazards

Adverse physicochemical, human health and : Harmful if inhaled. May cause respiratory irritation. May cause an allergic skin reaction. Harmful

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environmental effects

to aquatic life with long lasting effects.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Cyclohexanamine,N,N-dimethyl-, compds. with 3-(cyclohexylamino)-1-propanesulfonic acid-blocked 1,6-diisocyanatohexane homopolymer	(CAS-No.) 666723-27-9 (EC-No.) 679-494-0	≥ 100	Acute Tox. 4 (Inhalation), H332 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 3, H412
Hexamethylene-1,6-diisocyanate Homopolymer	(CAS-No.) 3779-63-3 (EC-No.) 223-242-0 (REACH-no) 01-2119949539-20	≥ 50	Acute Tox. 4 (Inhalation), H332 Skin Sens. 1, H317 STOT SE 3, H335
N,N-dimethylcyclohexylamine	(CAS-No.) 98-94-2 (EC-No.) 202-715-5 (REACH-no) 01-2119533030-60	≥ 1,6	Flam. Liq. 3, H226 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Chronic 2, H411
Hexamethylene-1,6-diisocyanate	(CAS-No.) 822-06-0 (EC-No.) 212-485-8 (EC Index-No.) 615-011-00-1 (REACH-no) 01-2119457571-37	0 – 0,24	Acute Tox. 4 (Oral), H302 Acute Tox. 1 (Inhalation), H330 Skin Corr. 1, H314 Resp. Sens. 1, H334 Skin Sens. 1, H317

Specific concentration limits:

Name	Product identifier	Specific concentration limits
Hexamethylene-1,6-diisocyanate	(CAS-No.) 822-06-0 (EC-No.) 212-485-8 (EC Index-No.) 615-011-00-1 (REACH-no) 01-2119457571-37	(0,5 ≤C < 100) Skin Sens. 1, H317 (0,5 ≤C < 100) Resp. Sens. 1, H334

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Remove contaminated clothes.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Respiratory problems: consult a doctor/medical service.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse opened eye for several minutes under running water. Then consult doctor.
First-aid measures after ingestion	: Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: May cause an allergic skin reaction.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water fog. Foam. Carbon dioxide. Powder.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	: Toxic fumes may be released.
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5.3. Advice for firefighters

Firefighting instructions	: Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: Do not allow run-off from fire fighting to enter drains or water courses.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Concerning personal protective equipment to use, see section 8. Ensure adequate ventilation. Keep public away.

6.1.1. For non-emergency personnel

Emergency procedures : Do not get in eyes, on skin, or on clothing. Evacuate unnecessary personnel. Ventilate area. Do not breathe vapours.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Mechanically recover the product. Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel). After approx. one hour transfer to waste container and do not seal. Keep in a safe ventilated area for several days.

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Use only outdoors or in a well-ventilated area. Avoid breathing fume, vapours, mist. Wear protective clothing. Do not get in eyes, on skin, or on clothing. Do not handle until all safety precautions have been read and understood.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Hexamethylene-1,6-diisocyanate Homopolymer (3779-63-3)		
United Kingdom	WEL TWA (mg/m ³)	0,02 mg/m ³ Isocyanates, all (as -NCO) Except methyl isocyanate; United Kingdom; Time-weighted average 8 hours; Workplace exposure limit (EH40 / 2005)
United Kingdom	WEL STEL (mg/m ³)	0,07 mg/m ³ Isocyanates, all (as -NCO) Except methyl isocyanate; United Kingdom; Short-term value; Workplace exposure limit (EH40 / 2005)
Hexamethylene-1,6-diisocyanate (822-06-0)		
Belgium	Limit value (mg/m ³)	0,034 mg/m ³ (Hexamethylene diisocyanate; Belgium; Time weighted average 8h)
Belgium	Limit value (ppm)	0,005 ppm (Hexamethylene diisocyanate; Belgium; Time weighted average 8h)
France	VME (mg/m ³)	0,075 mg/m ³ (Diisocyanate d'hexaméthylène; Frankrijk; Tijdsgewogen gemiddelde 8u; VL: Valeur non réglementaire indicative)
France	VME (ppm)	0,01 ppm (Diisocyanate d'hexaméthylène; Frankrijk; Tijdsgewogen gemiddelde 8u; VL: Valeur non réglementaire indicative)
France	VLE (mg/m ³)	0,15 mg/m ³ Diisocyanate d'hexaméthylène; Frankrijk; Kortetijds waarde; VL: Valeur non réglementaire indicative; (5min)
France	VLE (ppm)	0,02 ppm Diisocyanate d'hexaméthylène; Frankrijk; Kortetijds waarde; VL: Valeur non réglementaire indicative; (5min)

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Hexamethylene-1,6-diisocyanate (822-06-0)		
United Kingdom	WEL TWA (mg/m ³)	0,02 mg/m ³ Isocyanates, all (as -NCO) Except methyl isocyanate; Verenigd Koninkrijk; Tijdsgewogen gemiddelde 8u; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m ³)	0,07 mg/m ³ Isocyanates, all (as -NCO) Except methyl isocyanate; Verenigd Koninkrijk; Kortetijds waarde; Workplace exposure limit (EH40/2005)
USA - ACGIH	ACGIH TWA (ppm)	0,005 ppm (Hexamethylene diisocyanate; USA; Time Weighted Average 8h; TLV - Adopted Value)

8.2. Exposure controls

Appropriate engineering controls	: Ensure good ventilation of the work station.
Hand protection	: Protecting gloves from butyl rubber >480 min (EN 374) >0,5 mm. fluorinated rubber >0,4 mm
Eye protection	: Safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: In order to avoid inhalation of mist/vapour, all spraying must be done wearing adequate respirator. Self-contained breathing apparatus with an air line. Persons suffering from asthma or eczema and persons who have chronic lung diseases, skin or respiratory allergies to isocyanates should not work with the material



Environmental exposure controls	: Avoid release to the environment.
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: colourless to slightly yellow.
Odour	: almost. odourless.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: ≈ -27 °C
Boiling point	: > 300 °C
Flash point	: 192
Auto-ignition temperature	: 425 K
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: 17 hPa
Vapour pressure at 50 °C	: 26 hPa
Relative vapour density at 20 °C	: 1,16
Relative density	: No data available
Density	: 1,16 g/cm ³
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 3500 mPa·s
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

No supplementary information available.

10.2. Chemical stability

No supplementary information available.

10.3. Possibility of hazardous reactions

Reacts slowly with water, generate gases (CO₂) and overpressure : rupture containers. Exothermic reaction with. Amines. alcohols.

10.4. Conditions to avoid

No supplementary information available.

10.5. Incompatible materials

No supplementary information available.

10.6. Hazardous decomposition products

Refer to Summary of hazards - Heading 3.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful if inhaled.

ATE CLP (gases)	4500 ppmv/4h
ATE CLP (vapours)	11 mg/l/4h
ATE CLP (dust,mist)	1,5 mg/l/4h

Hexamethylene-1,6-diisocyanate Homopolymer (3779-63-3)

LD50 oral rat	> 5000 mg/kg
LC50 inhalation rat (mg/l)	0,39 – 0,54 mg/l air (OECD 403: Acute inhalation toxicity, 4 h, Rat, Male / female, Read-across, Converted value, Inhalation (aerosol), 3 weeks)

Hexamethylene-1,6-diisocyanate (822-06-0)

LD50 oral rat	745 mg/kg
LD50 dermal rat	> 7000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24h, Rat, Male / Female, Experimental Value, Dermal, 14 day (s))
LD50 dermal rabbit	599 mg/kg
LC50 inhalation rat (mg/l)	0,31 mg/l/4h
LC50 inhalation rat (ppm)	45 ppm/4h

N,N-dimethylcyclohexylamine (98-94-2)

LD50 oral rat	272 mg/kg (Rat, experimental value)
LD50 dermal rat	380 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24h, Rat, Male / Female, Experimental Value, Dermal, 14 day (s))
LC50 inhalation rat (mg/l)	4,5 mg/l/4h

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

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Viscosity, kinematic	3017,241 mm ² /s
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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.

Hexamethylene-1,6-diisocyanate (822-06-0)

LC50 fish 1	22 mg/l (LC0; Other; 96 h; Brachydanio rerio; Static system)
EC50 Daphnia 1	< 0,33 mg/l (EC0; Other; 24h; Daphnia magna; Static system)
LC50 fish 2	31 mg/l (LC100; Other; 96 h; Brachydanio rerio; Static system)

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N,N-dimethylcyclohexylamine (98-94-2)	
LC50 fish 1	31,58 mg/l (LC50; DIN 38412-15; 96 h; Leuciscus idus; Static system; Fresh water; Experimental value)
EC50 Daphnia 2	75 mg/l (LC50; OECD 202: Acute immobilization study in Daphnia sp .; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
Threshold limit algae 1	> 2 mg/l (EC50; OECD 201: Algae: growth inhibition study; 72 h; Desmodesmus subspicatus; Static system; Fresh water; Experimental value)
Threshold limit algae 2	3,58 mg/l (LC50; ECOSAR; 96 h; Algae)

12.2. Persistence and degradability

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Biodegradation	0 %

Hexamethylene-1,6-diisocyanate Homopolymer (3779-63-3)	
Persistence and degradability	Biodegradability in water: no data available.

Hexamethylene-1,6-diisocyanate (822-06-0)	
Persistence and degradability	Not readily biodegradable.

N,N-dimethylcyclohexylamine (98-94-2)	
Persistence and degradability	Readily biodegradable. Mobile. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0,003 g O ₂ /g substance
Chemical oxygen demand (COD)	2,85 g O ₂ /g substance

12.3. Bioaccumulative potential

Hexamethylene-1,6-diisocyanate Homopolymer (3779-63-3)	
BCF fish 1	3,2 (calculated value)
Partition coefficient n-octanol/water (Log Pow)	5,54 (calculated value)

Hexamethylene-1,6-diisocyanate (822-06-0)	
BCF fish 1	59,6 (BCFWIN, Pisces, QSAR)
Partition coefficient n-octanol/water (Log Pow)	1,08 (QSAR)
Bioaccumulative potential	Low bioaccumulation potential.

N,N-dimethylcyclohexylamine (98-94-2)	
BCF other aquatic organisms 1	19,84 – 35,66
Partition coefficient n-octanol/water (Log Pow)	2,01 (Experimental value; OECD 107: Partition coefficient (n-octanol / water): Shake bottle method; 25 ° C)
Bioaccumulative potential	Low bioaccumulation potential.

12.4. Mobility in soil

Hexamethylene-1,6-diisocyanate Homopolymer (3779-63-3)	
Partition coefficient n-octanol/water (Log Koc)	7,3 – 7,8 (log Koc, calculated value)
Ecology - soil	little. Adsorption in soil.

Hexamethylene-1,6-diisocyanate (822-06-0)	
Partition coefficient n-octanol/water (Log Koc)	2,78 – 3,68 (log Koc:calculated value)
Ecology - soil	little. Mobile.

N,N-dimethylcyclohexylamine (98-94-2)	
Partition coefficient n-octanol/water (Log Koc)	log Koc,PCKOCWIN v1.66; 1.84; QSAR
Ecology - soil	strong. Mobile.

12.5. Results of PBT and vPvB assessment

Component	
Hexamethylene-1,6-diisocyanate Homopolymer (3779-63-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Hexamethylene-1,6-diisocyanate (822-06-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
N,N-dimethylcyclohexylamine (98-94-2)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Ensure all national/local regulations are observed.

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Waste treatment methods	: Empty remaining contents. Dispose in a safe manner in accordance with local/national regulations.
Sewage disposal recommendations	: Do not allow into drains or water courses.
Product/Packaging disposal recommendations	: Recycle following cleaning.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
Proper Shipping Name (ADN)	: Not applicable
Proper Shipping Name (RID)	: Not applicable

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

ADN

Transport hazard class(es) (ADN) : Not applicable

RID

Transport hazard class(es) (RID) : Not applicable

14.4. Packing group

Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable

14.5. Environmental hazards

Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

14.6. Special precautions for user

- Overland transport

No data available

- Transport by sea

No data available

- Air transport

No data available

- Inland waterway transport

Carriage prohibited (ADN)	: No
Not subject to ADN	: No

- Rail transport

Carriage prohibited (RID)	: No
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14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany

Regulatory reference : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 1 (Inhalation)	Acute toxicity (inhal.), Category 1
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Liq. 3	Flammable liquids, Category 3
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Corr. 1	Skin corrosion/irritation, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.

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H331	Toxic if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.