

**Trade name:** Binding agent for WIDOPERL

**Current version :** 7.0.1, issued: 13.09.2024

**Replaced version:** 7.0.0, issued: 15.12.2023

**Region:** GB

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

### 1.1 Product identifier

**Trade name**

**Binding agent for WIDOPERL**

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

**Relevant identified uses of the substance or mixture**

binder designed for aggregate filling

**Uses advised against**

No data available.

### 1.3 Details of the supplier of the safety data sheet

**Address**

Widopan Produkte GmbH

Ostereichen 3

D-21714 Hammah

Telephone no. +49 (0) 4144 69821-0

Fax no. +49 (0) 4144 69821-20

**Information provided by / telephone**

+49 (0) 4144 69821-0

**Advice on Safety Data Sheet**

sdb\_info@umco.de

**Details of the importer**

**Address**

Widopan Limited

System House

Horndon Industrial Park

24 Station Rd

West Horndon

Brentwood

CM13 3XL

### 1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Acute Tox. 4; H332

Carc. 2; H351

Eye Irrit. 2; H319

Resp. Sens. 1; H334

Skin Irrit. 2; H315

Skin Sens. 1; H317

STOT RE 2; H373

STOT SE 3; H335

**Classification information**

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This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

## 2.2 Label elements

### Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

#### Hazard pictograms



GHS07



GHS08

#### Signal word

Danger

#### Hazardous component(s) to be indicated on label:

Aromatic polyisocyanate prepolymer  
 diphenylmethane-4,4'-diisocyanate  
 diphenylmethane-2,4'-diisocyanate  
 Aromatic polyisocyanate prepolymer  
 diphenylmethanediisocyanate, isomeres and homologues  
 2,2'-methylenediphenyl diisocyanate

#### Hazard statement(s)

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

#### Hazard statements (EU)

EUH204	Contains isocyanates. May produce an allergic reaction.
EUH208	Contains dibutyltin-dilaurate. May produce an allergic reaction.

#### Precautionary statement(s)

P201	Obtain special instructions before use.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	In case of inadequate ventilation wear respiratory protection.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container to a facility in accordance with local and national regulations.

#### Supplemental label elements

'As from 24 August 2023 adequate training is required before industrial or professional use'

## 2.3 Other hazards

No data available.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable. The product is not a substance.

### 3.2 Mixtures

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## Hazardous ingredients

No	Substance name	Classification (EC) 1272/2008 (CLP)	Additional information Concentration	%
	CAS / EC / Index / REACH no			
1	<b>Aromatic polyisocyanate prepolymer</b>			
	72088-97-2 - - -	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335 STOT RE 2; H373	>= 25.00 - < 50.00	wt%
2	<b>diphenylmethane-4,4'-diisocyanate</b>			
	101-68-8 202-966-0 615-005-00-9 01-2119457014-47	Acute Tox. 4; H332 Carc. 2; H351 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT RE 2; H373i STOT SE 3; H335	>= 10.00 - < 25.00	wt%
3	<b>diphenylmethane-2,4'-diisocyanate</b>			
	5873-54-1 227-534-9 615-005-00-9 01-2119480143-45	Acute Tox. 4; H332 Carc. 2; H351 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT RE 2; H373i STOT SE 3; H335	>= 10.00 - < 25.00	wt%
4	<b>Aromatic polyisocyanate prepolymer</b>			
	67815-87-6 - - -	Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 Acute Tox. 4; H332 Resp. Sens. 1; H334 STOT SE 3; H335 STOT RE 2; H373	>= 10.00 - < 25.00	wt%
5	<b>diphenylmethanediisocyanate, isomeres and homologues</b>			
	9016-87-9 - 615-005-00-9 -	Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 Acute Tox. 4*; H332 Resp. Sens. 1; H334 STOT SE 3; H335 Carc. 2; H351 STOT RE 2*; H373**	>= 5.00 - < 10.00	wt%
6	<b>2,2'-methylenediphenyl diisocyanate</b>			
	2536-05-2 219-799-4 615-005-00-9 01-2119927323-43	Acute Tox. 4; H332 Carc. 2; H351 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT RE 2; H373i STOT SE 3; H335	< 2.50	wt%
7	<b>tosyl isocyanate</b>			

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	4083-64-1 223-810-8 615-012-00-7 01-2119980050-47	EUH014 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Irrit. 2; H315 STOT SE 3; H335	< 2.50	wt%
<b>8</b>	<b>dibutyltin-dilaurate</b>			
	77-58-7 201-039-8 050-030-00-3 01-2119496068-27	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Muta. 2; H341 Repr. 1B; H360FD Skin Corr. 1B; H314 Skin Sens. 1; H317 STOT RE 1; H372o Eye Dam. 1; H318 STOT SE 1; H370	< 0.50	wt%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

(\*, \*\*, \*\*\*, \*\*\*\*) Detailed explanation pls. refer to CLP regulation No. 1272/2008, annex VI, 1.2

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
2	C, 2	Resp. Sens. 1; H334: C >= 0.1% Eye Irrit. 2; H319: C >= 5% Skin Irrit. 2; H315: C >= 5% STOT SE 3; H335: C >= 5%	-	-
3	C, 2	Resp. Sens. 1; H334: C >= 0.1% Eye Irrit. 2; H319: C >= 5% STOT SE 3; H335: C >= 5% Skin Irrit. 2; H315: C >= 5%	-	-
5	C, 2	Resp. Sens. 1; H334: C >= 0.1% Skin Irrit. 2; H315: C >= 5% Eye Irrit. 2; H319: C >= 5% STOT SE 3; H335: C >= 5%	-	-
6	C, 2	Resp. Sens. 1; H334: C >= 0.1% Eye Irrit. 2; H319: C >= 5% Skin Irrit. 2; H315: C >= 5% STOT SE 3; H335: C >= 5%	-	-

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

No	Route, target organ, concrete effect
2	H373i inhalational; -; -
3	H373i inhalational; -; -
6	H373i inhalational; -; -
8	H372 oral; liver; -

**SECTION 4: First aid measures****4.1 Description of first aid measures****General information**

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. If the patient is likely to become unconscious, place and transport in stable sideways position.

**After inhalation**

Remove affected person from the immediate area. Ensure supply of fresh air. Irregular breathing/no breathing: artificial respiration. Call a doctor immediately.

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Wash off immediately with soap and water. Don't use solvents.

**After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.). Seek medical assistance.

**After ingestion**

Do not induce vomiting. Call a doctor immediately. Never give anything by mouth to an unconscious person. Rinse the mouth thoroughly with water.

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

No data available.

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

No data available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

Alcohol-resistant foam; Extinguishing powder; Water spray jet; Carbon dioxide

**Unsuitable extinguishing media**

High power water jet

**5.2 Special hazards arising from the substance or mixture**In the event of fire, the following can be released: Carbon dioxide (CO<sub>2</sub>); Carbon monoxide (CO); Isocyanate vapours. Traces of hydrogen cyanide.**5.3 Advice for firefighters**

Cool endangered containers with water spray jet. Use self-contained breathing apparatus. Suppress gases/vapours/mists with water spray jet. Wear protective clothing.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Keep away from ignition sources.

**For emergency responders**

No data available. Personal protective equipment (PPE) - see Section 8.

**6.2 Environmental precautions**

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

**6.3 Methods and material for containment and cleaning up**Cover up with damp, liquid absorbing material (e. g. sawdust, chemical binding material based on calcium silicate hydrate, sand). After 1 hour collect in stainless containers for waste material disposal. Do not seal containers (generation of CO<sub>2</sub>)! Keep damp and let stand in a secured outdoor location for several days. Dispose according to section 13. Clean contaminated surfaces thoroughly with water. Decontaminate wash water (see item 7) and dispose of.**6.4 Reference to other sections**

No data available.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling****Advice on safe handling**

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Ensure adequate ventilation. When filling, transferring, or emptying of containers, adequate suctioning close to work place necessary. Provide suitable exhaust ventilation at the processing machines. If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances. Keep ready a decontamination solution consisting of ammonia solution (190 g/l), water and ethanol (5 %, 50 %, 45 %).

**General protective and hygiene measures**

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately. Do not inhale vapours. Wash hands before breaks and after work. Provide eye wash fountain in work area. Have emergency shower available.

**Advice on protection against fire and explosion**

Vapours can form an explosive mixture with air. Take precautionary measures against static charges. Keep away from sources of heat and ignition.

**7.2 Conditions for safe storage, including any incompatibilities**
**Technical measures and storage conditions**

Keep container tightly closed and dry in a cool, well-ventilated place. Precautions should be taken to minimise exposure to atmospheric humidity or water: CO<sub>2</sub> will be formed which in closed containers can result in pressurisation. DO NOT KEEP THE CONTAINERS SEALED !! Protect from heat and direct sunlight.

**Requirements for storage rooms and vessels**

Containers which are opened must be carefully closed and kept upright to prevent leakage. Keep only in the original container. Cover opened container with nitrogen in order to keep moisture away from the product.

**Incompatible products**

Do not store together with: oxidizing agents; Metals; Reducing agents; Keep away from water. Alcohols; Amines; Acids; Bases

**7.3 Specific end use(s)**

No data available.

**SECTION 8: Exposure controls/personal protection**
**8.1 Control parameters**
**Occupational exposure limit values**

No	Substance name	CAS no.	EC no.
1	diphenylmethane-4,4'-diisocyanate	101-68-8	202-966-0
	<b>List of approved workplace exposure limits (WELs) / EH40</b>		
	Isocyanates, all (as -NCO) Exept methyl isocyanate		
	WEL short-term (15 min reference period)	0.07	mg/m <sup>3</sup>
	WEL long-term (8-hr TWA reference period)	0.02	mg/m <sup>3</sup>
	Comments	Sen	
2	diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	
	<b>List of approved workplace exposure limits (WELs) / EH40</b>		
	Isocyanates, all (as -NCO) Exept methyl isocyanate		
	WEL short-term (15 min reference period)	0.07	mg/m <sup>3</sup>
	WEL long-term (8-hr TWA reference period)	0.02	mg/m <sup>3</sup>
	Comments	Sen	
3	2,2'-methylene-diphenyl diisocyanate	2536-05-2	219-799-4
	<b>List of approved workplace exposure limits (WELs) / EH40</b>		
	Isocyanates, all (as -NCO) Exept methyl isocyanate		
	WEL short-term (15 min reference period)	0.07	mg/m <sup>3</sup>
	WEL long-term (8-hr TWA reference period)	0.02	mg/m <sup>3</sup>
	Comments	Sen	
4	dibutyltin-dilaurate	77-58-7	201-039-8
	<b>List of approved workplace exposure limits (WELs) / EH40</b>		

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Tin compounds, organic, except Cyhexatin (ISO), (as Sn)			
	WEL short-term (15 min reference period)	0.2	mg/m <sup>3</sup>
	WEL long-term (8-hr TWA reference period)	0.1	mg/m <sup>3</sup>
	Comments	Sk	

**DNEL, DMEL and PNEC values****DNEL values (worker)**

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	<b>diphenylmethane-4,4'-diisocyanate</b>			<b>101-68-8</b> <b>202-966-0</b>	
	inhalative	Long term (chronic)	local	0.05	mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	0.1	mg/m <sup>3</sup>
2	<b>diphenylmethane-2,4'-diisocyanate</b>			<b>5873-54-1</b> <b>227-534-9</b>	
	inhalative	Long term (chronic)	local	0.05	mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	0.1	mg/m <sup>3</sup>
3	<b>2,2'-methylenediphenyl diisocyanate</b>			<b>2536-05-2</b> <b>219-799-4</b>	
	inhalative	Short term (acut)	local	0.1	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	0.05	mg/m <sup>3</sup>
4	<b>dibutyltin-dilaurate</b>			<b>77-58-7</b> <b>201-039-8</b>	
	dermal	Long term (chronic)	systemic	0.43	mg/kg bw/day
	dermal	Short term (acut)	systemic	2.08	mg/kg bw/day
	inhalative	Long term (chronic)	systemic	0.02	mg/m <sup>3</sup>
	inhalative	Short term (acut)	systemic	0.059	mg/m <sup>3</sup>

**DNEL value (consumer)**

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	<b>diphenylmethane-4,4'-diisocyanate</b>			<b>101-68-8</b> <b>202-966-0</b>	
	inhalative	Long term (chronic)	local	0.025	mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	0.05	mg/m <sup>3</sup>
2	<b>diphenylmethane-2,4'-diisocyanate</b>			<b>5873-54-1</b> <b>227-534-9</b>	
	inhalative	Long term (chronic)	local	0.025	mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	0.05	mg/m <sup>3</sup>
3	<b>2,2'-methylenediphenyl diisocyanate</b>			<b>2536-05-2</b> <b>219-799-4</b>	
	inhalative	Short term (acut)	local	0.05	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	0.025	mg/m <sup>3</sup>
4	<b>dibutyltin-dilaurate</b>			<b>77-58-7</b> <b>201-039-8</b>	
	oral	Long term (chronic)	systemic	0.003	mg/kg bw/day
	oral	Short term (acut)	systemic	0.02	mg/kg bw/day
	dermal	Long term (chronic)	systemic	0.16	mg/kg bw/day
	dermal	Short term (acut)	systemic	0.5	mg/kg bw/day
	inhalative	Long term (chronic)	systemic	0.005	mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	0.04	mg/m <sup>3</sup>

**PNEC values**

No	Substance name		CAS / EC no	
	ecological compartment	Type	Value	
1	<b>diphenylmethane-4,4'-diisocyanate</b>		<b>101-68-8</b> <b>202-966-0</b>	
	water	fresh water	3.7	µg/L

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	water	marine water	0.37	µg/L
	water	fresh water sediment	11.7	mg/kg dry weight
	water	marine water sediment	1.17	mg/kg dry weight
	soil	-	2.33	mg/kg dry weight
	sewage treatment plant	-	1	mg/L
2	<b>diphenylmethane-2,4'-diisocyanate</b>		<b>5873-54-1 227-534-9</b>	
	water	fresh water	3.7	µg/L
	water	marine water	0.37	µg/L
	water	fresh water sediment	11.7	mg/kg dry weight
	water	marine water sediment	1.17	mg/kg dry weight
	soil	-	2.33	mg/kg dry weight
3	<b>2,2'-methylenediphenyl diisocyanate</b>		<b>2536-05-2 219-799-4</b>	
	water	fresh water	1	mg/L
	water	marine water	0.1	mg/L
	sewage treatment plant	-	1	mg/L
	secondary poisoning	-	1	mg/kg dry weight
4	<b>dibutyltin-dilaurate</b>		<b>77-58-7 201-039-8</b>	
	water	fresh water	0	mg/L
	water	marine water	0	mg/L
	water	fresh water sediment	0.05	mg/kg dry weight
	water	marine water sediment	0.005	mg/kg dry weight
	soil	-	0.041	mg/kg dry weight
	sewage treatment plant	-	100	mg/L
	secondary poisoning	-	0.2	mg/kg food

## 8.2 Exposure controls

### Appropriate engineering controls

No data available.

### Personal protective equipment

#### Respiratory protection

In case of insufficient ventilation and during spray application respiratory protection necessary. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

#### Eye / face protection

Safety glasses with side protection shield (EN 166)

#### Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material                      Polychloroprene  
 Appropriate Material                      nitrile rubber



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Appropriate Material butyl rubber  
 Appropriate Material fluorintated rubber

**Other**

Normal chemical work clothing.

**Environmental exposure controls**

No data available.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

<b>State of aggregation</b>	
liquid	
<b>Form</b>	
liquid	
<b>Colour</b>	
dark brown	
<b>Odour</b>	
slightly aromatic	
<b>pH value</b>	
reason for missing pH	substance/mixture is non-soluble (in water)
<b>Boiling point / boiling range</b>	
Value	> 350 °C
<b>Melting point/freezing point</b>	
No data available	
<b>Setting point / solidification range</b>	
Value	< 0 °C
<b>Decomposition temperature</b>	
Value	> 260 °C
<b>Flash point</b>	
Value	> 200 °C
<b>Ignition temperature</b>	
Value	> 400 °C
<b>Flammability</b>	
No data available	
<b>Lower explosion limit</b>	
No data available	
<b>Upper explosion limit</b>	
No data available	
<b>Vapour pressure</b>	
Value	< 0.0000 mbar
Reference temperature	20 °C
Reference substance	Diphenylmethane-4,4'-di-isocyanate
<b>Relative vapour density</b>	
No data available	
<b>Relative density</b>	
No data available	

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Density			
Value	appr.	1.22	g/cm <sup>3</sup>
Reference temperature		23	°C
Method	DIN 53217		

Solubility in water	
Comments	insoluble
Comments	Reacts with water

Solubility
No data available

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	diphenylmethane-4,4'-diisocyanate	101-68-8	202-966-0
	log Pow	4.51	
	Reference temperature	22	°C
	with reference to	pH 7	
	Method	OECD 117	
	Source	ECHA	
2	diphenylmethane-2,4'-diisocyanate	5873-54-1	227-534-9
	log Pow	4.51	
	Reference temperature	22	°C
	with reference to	pH 7	
	Method	OECD 117	
	Source	ECHA	
3	dibutyltin-dilaurate	77-58-7	201-039-8
	log Pow	4.44	
	Reference temperature	20.8	°C
	Method	OECD 107	
	Source	ECHA	

Kinematic viscosity			
Value	appr.	250	sec
Reference temperature		23	°C
Type	Efflux time		
Method	DIN 53211 (4 mm)		

Particle characteristics
No data available

**9.2 Other information**

Other information
No data available.

**SECTION 10: Stability and reactivity****10.1 Reactivity**

No data available.

**10.2 Chemical stability**

No data available.

**10.3 Possibility of hazardous reactions**

No data available.

**10.4 Conditions to avoid**

Moisture; Heat

**10.5 Incompatible materials**

Oxidizing agents; Metals; Reducing agents; Alcohols; Acids; Bases; Amines; Water

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**10.6 Hazardous decomposition products**

In case of fire the following can be released: Isocyanate vapours; Traces of hydrogen cyanide

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	dibutyltin-dilaurate	77-58-7	201-039-8
LD50		2071	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	dibutyltin-dilaurate	77-58-7	201-039-8
LD50	>	2000	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		

Acute inhalational toxicity (result of the ATE calculation for the mixture)			
Product Name			
Binding agent for WIDOPERL			
ATE (Mixture)	18.5369	mg/l	
Route of exposure / physical form	Vapour		
Method	Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I, part 3, section 3.1.3.6.		

Acute inhalational toxicity			
No data available			

Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	diphenylmethane-4,4'-diisocyanate	101-68-8	202-966-0
Duration of exposure		4	h
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	irritant		
Evaluation/classification	Based on available data, the classification criteria are met.		
2	dibutyltin-dilaurate	77-58-7	201-039-8
Method	OECD 431		
Source	ECHA		
Evaluation	non-irritant		

Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	diphenylmethane-4,4'-diisocyanate	101-68-8	202-966-0
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	irritant		
Evaluation/classification	Based on available data, the classification criteria are met.		
2	dibutyltin-dilaurate	77-58-7	201-039-8
Species	rabbit		
Method	OECD 405		
Source	ECHA		

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Evaluation | strongly irritant

**Respiratory or skin sensitisation**

No	Substance name	CAS no.	EC no.
1	diphenylmethane-4,4'-diisocyanate	101-68-8	202-966-0

Route of exposure | respiratory tract

Species | guinea pig

Source | ECHA

Evaluation | sensitizing

Evaluation/classification | Based on available data, the classification criteria are met.

Route of exposure | Skin

Species | guinea pig

Method | OECD 406

Source | ECHA

Evaluation | sensitizing

Evaluation/classification | Based on available data, the classification criteria are met.

No	Substance name	CAS no.	EC no.
2	dibutyltin-dilaurate	77-58-7	201-039-8

Route of exposure | Skin

Species | guinea pig

Method | OECD 406

Source | ECHA

Evaluation | sensitizing

**Germ cell mutagenicity**

No	Substance name	CAS no.	EC no.
1	diphenylmethane-4,4'-diisocyanate	101-68-8	202-966-0

Type of examination | in vitro gene mutation study in bacteria

Species | S. typhimurium TA 1535, TA 1537, TA 98 and TA 100

Method | EU Method B.13/14

Source | ECHA

Evaluation/classification | Based on available data, the classification criteria are not met.

No	Substance name	CAS no.	EC no.
2	diphenylmethane-2,4'-diisocyanate	5873-54-1	227-534-9

Source | ECHA

Evaluation/classification | Based on available data, the classification criteria are not met.

**Reproduction toxicity**

No data available

**Carcinogenicity**

No	Substance name	CAS no.	EC no.
1	diphenylmethane-4,4'-diisocyanate	101-68-8	202-966-0

Route of exposure | inhalational

NOAEC | 0.7 mg/m<sup>3</sup>

Duration of exposure | 2 year(s)

Species | rat

Method | 87/302/EEC, Part B, p37

Source | ECHA

Evaluation/classification | Based on available data, the classification criteria are met.

**STOT - single exposure**

No data available

**STOT - repeated exposure**

No	Substance name	CAS no.	EC no.
1	diphenylmethane-4,4'-diisocyanate	101-68-8	202-966-0

Route of exposure | inhalational

LOAEC | 0.23 mg/m<sup>3</sup>

Species | rat

Method | 87/302/EEC, Part B, p37

Source | ECHA

Evaluation/classification | Based on available data, the classification criteria are met.

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**Aspiration hazard**

No data available

**Endocrine disrupting properties**

No data available

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

In case of overexposure – especially during spraying applications without observed safety measures – danger of eye, nose, throat and airways irritation. Delayed appearance of difficulties and development of hypersensitivity (difficult breathing, coughing, and asthma) are possible. There may be hypersensitive persons who develop reactions following exposure to very low concentrations of isocyanates, even below the threshold limit value at the workplace. Tanning and irritating effects are possible at prolonged skin contact.

**11.2 Information on other hazards****Other information**

No data available.

**SECTION 12: Ecological information****12.1 Toxicity****Toxicity to fish (acute)**

No	Substance name	CAS no.	EC no.
1	dibutyltin-dilaurate	77-58-7	201-039-8
LC50		21.2	mg/l
Duration of exposure		96	h
Species	Danio rerio		
Method	OECD 203		
Source	ECHA		

**Toxicity to fish (chronic)**

No data available

**Toxicity to Daphnia (acute)**

No	Substance name	CAS no.	EC no.
1	dibutyltin-dilaurate	77-58-7	201-039-8
EC50		<	0.463 mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		

**Toxicity to Daphnia (chronic)**

No data available

**Toxicity to algae (acute)**

No	Substance name	CAS no.	EC no.
1	dibutyltin-dilaurate	77-58-7	201-039-8
EC50		>	1 mg/l
Duration of exposure		72	h
Species	Desmodesmus subspicatus		
Method	OECD 201		
Source	ECHA		

**Toxicity to algae (chronic)**

No data available

**Bacteria toxicity**

No	Substance name	CAS no.	EC no.
1	dibutyltin-dilaurate	77-58-7	201-039-8
IC50		>	1000 mg/l

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Duration of exposure	3	h
Species	activated sludge	
Method	OECD 209	
Source	ECHA	

**12.2 Persistence and degradability**

<b>Biodegradability</b>			
No	Substance name	CAS no.	EC no.
1	<b>diphenylmethane-4,4'-diisocyanate</b>	<b>101-68-8</b>	<b>202-966-0</b>
Type		aerobic biodegradation	
Value		0	%
Duration		28	d
Method	OECD 301 F		
Source	ECHA		
Evaluation	not readily biodegradable		
2	<b>dibutyltin-dilaurate</b>	<b>77-58-7</b>	<b>201-039-8</b>
Value		23	%
Duration		39	d
Method	OECD 301 F		
Source	ECHA		
Evaluation	not readily biodegradable		

**12.3 Bioaccumulative potential**

<b>Bioconcentration factor (BCF)</b>			
No	Substance name	CAS no.	EC no.
1	<b>diphenylmethane-4,4'-diisocyanate</b>	<b>101-68-8</b>	<b>202-966-0</b>
BCF		92	- 200
Species	Cyprinus carpio		
Method	OECD 305 E		
Source	ECHA		
2	<b>diphenylmethane-2,4'-diisocyanate</b>	<b>5873-54-1</b>	<b>227-534-9</b>
BCF		92	- 200
Method	OECD 305 E		
Source	ECHA		
3	<b>dibutyltin-dilaurate</b>	<b>77-58-7</b>	<b>201-039-8</b>
BCF			2.91
Method	OECD 305		
Source	ECHA		

<b>Partition coefficient n-octanol/water (log value)</b>			
No	Substance name	CAS no.	EC no.
1	<b>diphenylmethane-4,4'-diisocyanate</b>	<b>101-68-8</b>	<b>202-966-0</b>
log Pow		4.51	
Reference temperature		22	°C
with reference to		pH 7	
Method	OECD 117		
Source	ECHA		
2	<b>diphenylmethane-2,4'-diisocyanate</b>	<b>5873-54-1</b>	<b>227-534-9</b>
log Pow		4.51	
Reference temperature		22	°C
with reference to		pH 7	
Method	OECD 117		
Source	ECHA		
3	<b>dibutyltin-dilaurate</b>	<b>77-58-7</b>	<b>201-039-8</b>
log Pow		4.44	
Reference temperature		20.8	°C
Method	OECD 107		
Source	ECHA		

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No data available.

**12.5 Results of PBT and vPvB assessment**

No data available.

**12.6 Endocrine disrupting properties**

No data available.

**12.7 Other adverse effects**

No data available.

**12.8 Other information****Other information**

Do not discharge into drains or waters and do not dispose of in public landfills.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

**Packaging**

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer. Empty containers should be disposed of only after removing product residues adhering to container walls, by the reaction with a decontaminating solution (see item 7).

**SECTION 14: Transport information****14.1 UN number or ID number**

Not classified as dangerous in the meaning of transport regulations.

**14.2 UN proper shipping name**

Not classified as dangerous in the meaning of transport regulations.

**14.3 Transport hazard class(es)**

Not classified as dangerous in the meaning of transport regulations.

**14.4 Packing group**

Not classified as dangerous in the meaning of transport regulations.

**14.5 Environmental hazards**

Not classified as dangerous in the meaning of transport regulations.

**14.6 Special precautions for user**

No data available.

**14.7 Maritime transport in bulk according to IMO instruments**

Not relevant

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

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**REACH candidate list of substances of very high concern (SVHC) for authorisation**

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

**Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES**

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII. No 3

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No	Substance name	CAS no.	EC no.	No
1	2,2'-methylenediphenyl diisocyanate	2536-05-2	219-799-4	56, 74, 75, 77
2	dibutyltin-dilaurate	77-58-7	201-039-8	20, 75
3	diphenylmethane-2,4'-diisocyanate	5873-54-1	227-534-9	56, 74, 75, 77
4	diphenylmethane-4,4'-diisocyanate	101-68-8	202-966-0	56, 74, 75, 77
5	diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	-	56, 74, 75, 77
6	tosyl isocyanate	4083-64-1	223-810-8	75

**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This product is not subject to Part 1 or 2 of Annex I.

**15.2 Chemical safety assessment**

No data available.

**SECTION 16: Other information****Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

**Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)**

EUH014	Reacts violently with water.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H341	Suspected of causing genetic defects
H360FD	May damage fertility. May damage the unborn child.
H370	Causes damage to organs.
H372o	Causes damage to organs through prolonged or repeated exposure if swallowed.
H373i	May cause damage to organs through prolonged or repeated exposure if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

**Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)**

C	Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
2	The concentration of isocyanate stated is the percentage by weight of the free monomer calculated with reference to the total weight of the mixture.

**Creation of the safety data sheet**

UMCO GmbH



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**Region:** GB

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Georg-Wilhelm-Str. 187, D-21107 Hamburg  
Tel.: +49 40 / 555 546 300 Fax: +49 40 / 555 546 357 e-mail: umco@umco.de

This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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