

Trade name: AQUASURE Urethane Repair Adhesive & Sealant

Current version : 1.2.2, issued: 18.03.2015

Replaced version: 1.2.1, issued: 04.03.2015

Region: GB

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

1.1 Product identifier

Trade name

AQUASURE Urethane Repair Adhesive & Sealant

Product Item Code: 10112, 10116, 11146, 004002, 10194

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

Relevant identified uses of the substance or mixture

Adhesive for flexible repairs.

1.3 Details of the supplier of the safety data sheet

Address

McNett Europe
Saarstrasse 5
29664 Walsrode

Telephone no. +49 (0)700-00-555-555

Fax no. +49 (0)5161-418-0511

Advice on Safety Data Sheet

sdb_info@umco.de

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)

Flam. Liq. 3; H226

Resp. Sens. 1; H334

Skin Irrit. 2; H315

Classification in accordance with Directive 67/548/EEC or 1999/45/EC

R10

R42

Xi; R38

Xn; R20/21

2.2 Label elements

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

Hazard pictograms



GHS02



GHS08

Signal word

Danger

Hazardous component(s) to be indicated on label:

diphenylmethane-4,4'-di-isocyanate

Hazard statements

H226

Flammable liquid and vapour.

H315

Causes skin irritation.

H334

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Hazard statements (EU)

EUH204

Contains isocyanates. May produce an allergic reaction.

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Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P261 Avoid breathing vapours.
 P284 In case of inadequate ventilation wear respiratory protection.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
 P370+P378 In case of fire: use dry sand, dry chemical or alcohol-resistant foam.

Supplemental label elements

Persons already sensitised to diisocyanates may develop allergic reactions when using this product.
 Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.
 This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

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

Hazardous ingredients

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification 67/548/EEC	Classification (EC) 1272/2008 (CLP)
1	xylene		
	1330-20-7 215-535-7 601-022-00-9 -	R10 Xn; R20/21 Xi; R38	Acute Tox. 4*; H312 Acute Tox. 4*; H332 Flam. Liq. 3; H226 Skin Irrit. 2; H315
2	diphenylmethane-4,4'-di-isocyanate		
	101-68-8 202-966-0 615-005-00-9 -	Xn; R20 Xi; R36/37/38 Carc.Cat.3; R40 R42/43 Xn; R48/20	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

Full Text for all R-phrases , 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)
1	C	-	-	-
2	C, 2	Resp. Sens. 1; H334: C >= 0.1% Skin Irrit. 2; H315: C >= 5% STOT SE 3; H335: C >= 5% Eye Irrit. 2; H319: 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)".

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Remove contaminated clothing immediately and dispose of safely. In case of persisting adverse effects, consult a physician.

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After inhalation

Ensure supply of fresh air. Take medical treatment.

After skin contact

When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.

After eye contact

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Get medical attention if pain still persists.

After ingestion

Rinse out mouth and give plenty of water to drink. Never give anything by mouth to an unconscious person. Do not induce vomiting. Administer neither milk nor alcoholic beverages. Call a doctor.

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; Carbon dioxide; Dry chemical extinguisher; Dry sand

Unsuitable extinguishing media

No data available.

5.2 Special hazards arising from the substance or mixture

When heating or in case of fire formation of toxic gases. In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO₂); Nitrogen oxides (NO_x)

5.3 Advice for firefighters

Use self-contained breathing apparatus. chemical resistant protective clothing should be worn. Cool endangered containers with water spray jet.

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.

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

Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). When picked up, treat material as prescribed under heading "Disposal considerations".

6.4 Reference to other sections

No data available.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation, if necessary).

General protective and hygiene measures

Observe the usual precautions when handling chemicals. Do not eat, drink or smoke during work time. After worktime and during work intervals the affected skin areas must be thoroughly cleaned. Avoid contact with eyes and skin.

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Advice on protection against fire and explosion

Pay attention to general rules of internal fire prevention. Keep away from ignition sources and provide for good ventilation. Use explosion proof electric equipment.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep only in the original container in a cool, well ventilated place.

Requirements for storage rooms and vessels

Containers which are opened must be carefully resealed.

Advice on storage assembly

Do not store together with: Acids; Bases; Oxidizing agents

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	xylene	1330-20-7	215-535-7
	2000/39/EWG		
	Xylene, mixed isomers, pure		
	STEL	442	mg/m ³ 100 ml/m ³
	TWA	221	mg/m ³ 50 ml/m ³
	Skin resorption / sensibilisation	Skin	
	List of approved workplace exposure limits (WELs) / EH40		
	Xylene, o-, m-, p- or mixed isomers		
	STEL	441	mg/m ³ 100 ml/m ³
	TWA	220	mg/m ³ 50 ml/m ³
	Skin resorption / sensibilisation	Sk	
2	diphenylmethane-4,4'-di-isocyanate	101-68-8	202-966-0
	List of approved workplace exposure limits (WELs) / EH40		
	Isocyanates, all (as -NCO) Except methyl isocyanate		
	STEL	0.07	mg/m ³
	TWA	0.02	mg/m ³
	Skin resorption / sensibilisation	Sen	

8.2 Exposure controls

Appropriate engineering controls

No data available.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified. No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit. Chemical respirator with organic vapour cartridge.

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.

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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

Form/Colour	
liquid	
cloudy	
Odour	
characteristic; of solvents	
Odour threshold	
No data available	
pH value	
No data available	
Boiling point / boiling range	
No data available	
Melting point / melting range	
No data available	
Decomposition point / decomposition range	
No data available	
Flash point	
Value	42 °C
Method	closed cup
Auto-ignition temperature	
No data available	
Oxidising properties	
No data available	
Explosive properties	
No data available	
Flammability (solid, gas)	
No data available	
Lower flammability or explosive limits	
No data available	
Upper flammability or explosive limits	
No data available	
Vapour pressure	
No data available	
Vapour density	
No data available	
Evaporation rate	
No data available	
Relative density	
Value	0.95 - 1.05
Reference temperature	25 °C

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Density	
No data available	
Solubility in water	
No data available	
Solubility(ies)	
No data available	
Soluble in	
hydrocarbons	
Partition coefficient: n-octanol/water	
No data available	
Viscosity	
Value	40000 - 60000 mPa*s
Reference temperature	25 °C
Type	dynamic

9.2 Other information

Other information
No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

When heating the product, explosive vapour-air mixtures can be formed.

10.4 Conditions to avoid

Heat, naked flames and other ignition sources. Moisture.

10.5 Incompatible materials

Acids; Oxidizing agents; Water; Bases

10.6 Hazardous decomposition products

In case of fire: see section 5. Nitrous oxides (NOx)

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	xylene	1330-20-7	215-535-7
LD50		3523	mg/kg bodyweight
Species	rat		
Method	OECD 423		
Source	ECHA		

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Acute dermal toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	AQUASURE Urethane Repair Adhesive & Sealant Product Item Code: 10112, 10116, 11146, 004002, 10194
Remarks	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE dermal > 2000 mg/kg).

Acute dermal toxicity
No data available

Acute inhalational toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	AQUASURE Urethane Repair Adhesive & Sealant Product Item Code: 10112, 10116, 11146, 004002, 10194
Remarks	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE for inhalation: > 20.000 ppmV (gases), > 20 mg/l (vapours), > 5 mg/l (dusts/mists).

Acute inhalational toxicity
No data available

Skin corrosion/irritation
No data available

Serious eye damage/irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.
1	xylene	1330-20-7	215-535-7
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	xylene	1330-20-7	215-535-7
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Carcinogenicity			
No	Substance name	CAS no.	EC no.
1	xylene	1330-20-7	215-535-7
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

STOT-single exposure
No data available

STOT-repeated exposure			
No	Substance name	CAS no.	EC no.
1	xylene	1330-20-7	215-535-7
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

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Aspiration hazard
No data available

Delayed and immediate effects as well as chronic effects from short and long-term exposure
Vapours and Mist cause irritation effects to the eyes and the respiratory tract. Has a degreasing effect on the skin.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
1	xylene	1330-20-7	215-535-7
LC50		2.6	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 203		
Source	ECHA		

Toxicity to fish (chronic)			
No data available			

Toxicity to Daphnia (acute)			
No data available			

Toxicity to Daphnia (chronic)			
No	Substance name	CAS no.	EC no.
1	xylene	1330-20-7	215-535-7
NOEC		1.17	mg/l
Duration of exposure		7	day(s)
Species	Daphnia magna		
Source	ECHA		

Toxicity to algae (acute)			
No data available			

Toxicity to algae (chronic)			
No data available			

Bacteria toxicity			
No	Substance name	CAS no.	EC no.
1	xylene	1330-20-7	215-535-7
IC50		>	157 mg/l
Duration of exposure		3	h
Species	activated sludge		
Method	OECD 209		
Source	ECHA		

12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	xylene	1330-20-7	215-535-7
Type	aerobic biodegradation		
Value		87.8	%
Duration		28	day(s)
Method	OECD 301 F		
Source	ECHA		
Evaluation	readily biodegradable		

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12.3 Bioaccumulative potential

Bioconcentration factor (BCF)			
No	Substance name	CAS no.	EC no.
1	xylene	1330-20-7	215-535-7
BCF		<	25.9
Species		Oncorhynchus mykiss	
Source		ECHA	

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

12.7 Other information

Other information
Do not discharge product unmonitored into the environment.

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

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of in agreement with the regional waste disposal company.

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

Class	3
Classification code	F1
Packing group	III
Hazard identification no.	30
UN number	UN1866
Technical name	RESIN SOLUTION
Special Provision 640	640E
Tunnel restriction code	D/E
Label	3

14.2 Transport IMDG

Class	3
Packing group	III
UN number	UN1866
Proper shipping name	RESIN SOLUTION
EmS	F-E+S-E
Label	3

14.3 Transport ICAO-TI / IATA

Class	3
Packing group	III
UN number	UN1866
Proper shipping name	Resin solution
Label	3

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14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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.

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, PREPARATIONS AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annexe XVII.	No 3, 40
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The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annexe XVII.

No	Substance name	CAS no.	EC no.	No
1	diphenylmethane-4,4'-di-isocyanate	101-68-8	202-966-0	56

Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances

Remarks Annex I, part 2, category 6

15.2 Chemical safety assessment

No data available.

SECTION 16: Other information

Sources of key data used to compile the data sheet:

EC Directive 67/548/EC resp. 1999/45/EC as amended in each case.
 Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.
 EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU
 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 chapter.

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

R10	Flammable.
R20	Harmful by inhalation.
R20/21	Harmful by inhalation and in contact with skin.
R36/37/38	Irritating to eyes, respiratory system and skin.
R38	Irritating to skin.
R40	Limited evidence of a carcinogenic effect.
R42	May cause sensitization by inhalation.
R42/43	May cause sensitization by inhalation and skin contact.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.

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H312	Harmful in contact with skin.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer
H373	May cause damage to organs through prolonged or repeated exposure

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.

Department issuing safety data sheet

UMCO Umwelt Consult GmbH
Georg-Wilhelm-Str. 183 , 21107 Hamburg, Germany
Tel.: +49 40 / 79 02 36 300 Fax: +49 40 / 79 02 36 357 e-mail: umco@umco.de

This information is based on our present state of knowledge and experience.
The security data sheet describes products with a view to the security requirements.
However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

Alterations/supplements:

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