

Trade name: AQUASURE +SR**Current version :** 6.0.0, issued: 14.06.2023**Replaced version:** 5.2.0, issued: 14.01.2022**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name****AQUASURE +SR****1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

Adhesive and sealant for flexible repairs.

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet**Address**

Gear Aid Europe GmbH

Saarstrasse 5

29664 Walsrode

Telephone no. +49 (0)5161-41805-0

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)**

Eye Irrit. 2; H319

Flam. Liq. 3; H226

Resp. Sens. 1; H334

Skin Irrit. 2; H315

STOT RE 2; H373

STOT SE 3; H335

Classification information

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**

GHS02



GHS07



GHS08

Signal word

Danger

Hazardous component(s) to be indicated on label:

Reaction mass of xylene and ethylbenzene

Trade name: AQUASURE +SR

Current version : 6.0.0, issued: 14.06.2023

Replaced version: 5.2.0, issued: 14.01.2022

Region: GB

diphenylmethane-4,4'-diisocyanate

Hazard statement(s)

H226 Flammable liquid and vapour.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H335 May cause respiratory irritation.
 H373 May cause damage to organs through prolonged or repeated exposure

Hazard statements (EU)

EUH204 Contains isocyanates. May produce an allergic reaction.

Precautionary statement(s)

P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P271 Use only outdoors or in a well-ventilated area.
 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.
 P370+P378 In case of fire: Use water spray, extinguishing powder, foam or CO2 to extinguish.
 P405 Store locked up.
 P501 Dispose of contents/container to a facility in accordance with local and national regulations.

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

2.3 Other hazards

This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

PBT assessment

According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be PBT.

vPvB assessment

According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be vPvB.

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 (EC) 1272/2008 (CLP)	Concentration %
1	Reaction mass of xylene and ethylbenzene		
-	905-588-0	Acute Tox. 4; H312	>= 10.00 - < 25.00 wt%
-	01-2119539452-40	Acute Tox. 4; H332	
-		Asp. Tox. 1; H304	
-		Eye Irrit. 2; H319	
-		Flam. Liq. 3; H226	
		Skin Irrit. 2; H315	
		STOT SE 3; H335	
		STOT RE 2; H373	

Trade name: AQUASURE +SR**Current version :** 6.0.0, issued: 14.06.2023**Replaced version:** 5.2.0, issued: 14.01.2022**Region:** GB

2	diphenylmethane-4,4'-diisocyanate		
	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	< 1.00 wt%
3	tosyl isocyanate		
	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	< 0.50 wt%

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

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

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

Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. In case of persisting adverse effects, consult a physician.

After inhalation

Ensure supply of fresh air. Remove affected person from the immediate area. If unconscious place in recovery position and seek medical advice.

After skin contact

When in contact with the skin, clean with soap and water.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get medical attention if pain still persists.

After ingestion

Do not induce vomiting. Call a doctor immediately.

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

Trade name: AQUASURE +SR

Current version : 6.0.0, issued: 14.06.2023

Replaced version: 5.2.0, issued: 14.01.2022

Region: GB

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

Unsuitable extinguishing media

High power water jet

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); Nitrous oxides (NO_x)

5.3 Advice for firefighters

Use self-contained breathing apparatus. 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.

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.

6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g., sand, kieselguhr, universal binder). When collected, handle material as described under the section 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 at the work area (local exhaust ventilation, if necessary). 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.

General protective and hygiene measures

Keep away from food, drink and animal feeding stuffs. 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. Remove soiled or soaked clothing immediately. Do not inhale vapours. Provide eye wash fountain in work area.

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. Take precautionary measures against static charges. Vapours can form an explosive mixture with air.

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. Keep from freezing. Protect from heat and direct sunlight.

Requirements for storage rooms and vessels

Containers which are opened must be carefully resealed.

Incompatible products

Do not store together with: Acids; Bases; Amines; Alcohols

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Trade name: AQUASURE +SR

Current version : 6.0.0, issued: 14.06.2023

Replaced version: 5.2.0, issued: 14.01.2022

Region: GB

Occupational exposure limit values

No	Substance name	CAS no.	EC no.
1	diphenylmethane-4,4'-diisocyanate	101-68-8	202-966-0
List of approved workplace exposure limits (WELs) / EH40			
Isocyanates, all (as -NCO) Exept methyl isocyanate			
	WEL short-term (15 min reference period)	0.07	mg/m ³
	WEL long-term (8-hr TWA reference period)	0.02	mg/m ³
	Comments	Sen	

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

DNEL values (worker)					
No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	Reaction mass of xylene and ethylbenzene			-	
				905-588-0	
	dermal	Long term (chronic)	systemic	212	mg/kg/day
	inhalative	Short term (acut)	systemic	442	mg/m³
	inhalative	Short term (acut)	local	442	mg/m³
	inhalative	Long term (chronic)	systemic	221	mg/m³
	inhalative	Long term (chronic)	local	221	mg/m³
2	diphenylmethane-4,4'-diisocyanate			101-68-8	
				202-966-0	
	inhalative	Long term (chronic)	local	0.05	mg/m³
	inhalative	Short term (acut)	local	0.1	mg/m³

DNEL value (consumer)

DNEL value (consumer)				CAS / EC no	
No	Substance name				
	Route of exposure	Exposure time	Effect	Value	
1	Reaction mass of xylene and ethylbenzene			- 905-588-0	
	oral	Long term (chronic)	systemic	12.5	mg/kg/day
	dermal	Long term (chronic)	systemic	125	mg/kg/day
	inhalative	Short term (acut)	systemic	260	mg/m³
	inhalative	Long term (chronic)	systemic	65.3	mg/m³
	inhalative	Short term (acut)	local	260	mg/m³
	inhalative	Long term (chronic)	local	65.3	mg/m³
2	diphenylmethane-4,4'-diisocyanate			101-68-8 202-966-0	
	inhalative	Long term (chronic)	local	0.025	mg/m³
	inhalative	Short term (acut)	local	0.05	mg/m³

PNEC values

PNEC values				
No	Substance name		CAS / EC no	
	ecological compartment	Type	Value	
1	Reaction mass of xylene and ethylbenzene		- 905-588-0	
	water	fresh water	0.327	mg/L
	water	marine water	0.327	mg/L
	water	Aqua intermittent	0.327	mg/L
	water	fresh water sediment	12.46	mg/kg
	water	marine water sediment	12.46	mg/kg
	soil	-	2.31	mg/kg dry weight
	sewage treatment plant	-	6.58	mg/L
2	diphenylmethane-4,4'-diisocyanate		101-68-8 202-966-0	
	water	fresh water	3.7	µg/L
	water	marine water	0.37	µg/L

Trade name: AQUASURE +SR**Current version :** 6.0.0, issued: 14.06.2023**Replaced version:** 5.2.0, issued: 14.01.2022**Region:** GB

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

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.

Respirator A2 (DIN EN 14387 / DIN EN 141)

Eye / face protection

Safety glasses (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 nitrile rubber

Material thickness 0.8 mm

Other

Chemical-resistant work clothes.

Environmental exposure controls

No data available.

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

State of aggregation	
liquid	
Form	
liquid	
Colour	
cloudy	
Odour	
characteristic	
pH value	
No data available	
Boiling point / boiling range	
Value	139 °C
Source	supplier
Melting point/freezing point	
No data available	
Decomposition temperature	
No data available	

EU safety data sheet



Trade name: AQUASURE +SR

Current version : 6.0.0, issued: 14.06.2023

Replaced version: 5.2.0, issued: 14.01.2022

Region: GB

Flash point			
Value	25	°C	
Source	supplier		
Ignition temperature			
Value	430	°C	
Source	supplier		
Flammability			
No data available			
Lower explosion limit			
Value	1.0	% vol	
Source	supplier		
Upper explosion limit			
Value	7.8	% vol	
Source	supplier		
Vapour pressure			
Value	9	hPa	
Reference temperature	20	°C	
Source	supplier		
Relative vapour density			
No data available			
Relative density			
No data available			
Density			
Value	0.98	g/cm ³	
Reference temperature	20	°C	
Source	supplier		
Solubility in water			
Comments	insoluble		
Solubility			
No data available			
Soluble in			
hydrocarbons			
Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	Reaction mass of xylene and ethylbenzene	-	905-588-0
	log Pow	3.16	
	Reference temperature	20	°C
	Source	ECHA	
2	diphenylmethane-4,4'-diisocyanate	101-68-8	202-966-0
	log Pow	4.51	
	Reference temperature	20	°C
	Method	OECD 117	
	Source	ECHA	
Kinematic viscosity			
Value	70000	mPa*s	
Reference temperature	20	°C	
Type	dynamic		
Method	Brookfield		
Solvent content			
Value	25.0	%	
Particle characteristics			

Trade name: AQUASURE +SR

Current version : 6.0.0, issued: 14.06.2023

Replaced version: 5.2.0, issued: 14.01.2022

Region: GB

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

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; Alcohols; Bases; Amines; The product reacts slowly with water resulting in evolution of carbon dioxide. In closed containers, pressure build up could result distortion blowing and in extreme cases bursting of the container.

10.6 Hazardous decomposition products

In case of fire: see section 5.

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	Reaction mass of xylene and ethylbenzene	-	905-588-0
LD50		3523	mg/kg bodyweight
Species	rat		
Method	EU Method B.1		
Source	ECHA		
2	diphenylmethane-4,4'-diisocyanate	101-68-8	202-966-0
LD50		> 2000	mg/kg bodyweight
Species	rat		
Source	ECHA / Read across		

Acute dermal toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	AQUASURE +SR
Comments	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	Substance name	CAS no.	EC no.
1	diphenylmethane-4,4'-diisocyanate	101-68-8	202-966-0
LD50		> 9400	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA / Read across		

Acute inhalational toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	AQUASURE +SR

Trade name: AQUASURE +SR

Current version : 6.0.0, issued: 14.06.2023

Replaced version: 5.2.0, issued: 14.01.2022

Region: GB

Comments	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).
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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
Method	OECD 404		
Source	ECHA / Read across		
Evaluation	irritant		

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	Reaction mass of xylene and ethylbenzene	-	905-588-0
Species	Chinese hamster Ovary (CHO)		
Method	EU Method B.10		
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	Reaction mass of xylene and ethylbenzene	-	905-588-0
Species	rats (male/female)		
Method	EU Method B.32		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

STOT - single exposure

No data available

STOT - repeated exposure

No data available

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.

11.2 Information on other hazards**Endocrine disrupting properties**

No data available.

Other information

No data available.

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

EU safety data sheet



Trade name: AQUASURE +SR

Current version : 6.0.0, issued: 14.06.2023

Replaced version: 5.2.0, issued: 14.01.2022

Region: GB

No data available
Toxicity to fish (chronic)
No data available
Toxicity to Daphnia (acute)
No data available
Toxicity to Daphnia (chronic)
No data available
Toxicity to algae (acute)
No data available
Toxicity to algae (chronic)
No data available
Bacteria toxicity
No data available

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	Reaction mass of xylene and ethylbenzene	-	905-588-0
	log Pow	3.16	
	Reference temperature	20	°C
	Source	ECHA	
2	diphenylmethane-4,4'-diisocyanate	101-68-8	202-966-0
	log Pow	4.51	
	Reference temperature	20	°C
	Method	OECD 117	
	Source	ECHA	

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
PBT assessment	According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be PBT. According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be vPvB.
vPvB assessment	

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 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

Trade name: AQUASURE +SR**Current version :** 6.0.0, issued: 14.06.2023**Replaced version:** 5.2.0, issued: 14.01.2022**Region:** GB

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	UN1133
Proper shipping name	ADHESIVES
Tunnel restriction code	D/E
Label	3
Comments	Containers with a capacity <= 450 ltrs are not subject to ADR-regulations (refer to 2.2.3.1.5.)

14.2 Transport IMDG

Class	3
Packing group	III
UN number	UN1133
Proper shipping name	ADHESIVES
EmS	F-E, S-D
Label	3
Comments	Containers with a capacity <= 450 ltrs are not subjected to IMDG regulations, chapter 4.1, 5.2 and 6.1 (see IMDG-Code 2.3.2.5)

14.3 Transport ICAO-TI / IATA

Class	3
Packing group	III
UN number	UN1133
Proper shipping name	Adhesives
Label	3

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 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.

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

Trade name: AQUASURE +SR**Current version :** 6.0.0, issued: 14.06.2023**Replaced version:** 5.2.0, issued: 14.01.2022**Region:** GB

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.				No 3, 40
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	diphenylmethane-4,4'-diisocyanate	101-68-8	202-966-0	56, 74, 75
2	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 subject to Part I of Annex I, risk category:				P5c
Directive 2010/75/EU on industrial emissions (integrated pollution prevention and control)				
VOC content		25	%	
VOC-value		245	g/l	

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.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H351	Suspected of causing cancer.
H373i	May cause damage to organs through prolonged or repeated exposure if inhaled.

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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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:

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