

Trade name: WIDOPAN-Uini Primer

Current version : 13.1.1, issued: 13.09.2024

Replaced version: 13.1.0, issued: 06.06.2024

Region: GB

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

1.1 Product identifier

Trade name

WIDOPAN-Uini Primer

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

Relevant identified uses of the substance or mixture

Primer coat for sealing systems

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)

Carc. 2; H351

Eye Irrit. 2; H319

Flam. Liq. 2; H225

Resp. Sens. 1; H334

Skin Irrit. 2; H315

Skin Sens. 1; H317

STOT RE 2; H373

STOT SE 3; H335

STOT SE 3; H336

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



GHS02



GHS07



GHS08

Signal word

Danger

Hazardous component(s) to be indicated on label:

Aromatic polyisocyanate prepolymer
acetone

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

Hazard statement(s)

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
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.

Precautionary statement(s)

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	In case of inadequate ventilation wear respiratory protection.
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, carbon dioxide, dry chemical or foam to extinguish.

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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Chemical characterization

PU system, solvent containing

Hazardous ingredients

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration
			%
1	Aromatic polyisocyanate prepolymer		
	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	acetone		
	67-64-1 200-662-2 606-001-00-8 01-2119471330-49	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066	>= 25.00 - < 50.00 wt%
3	Aromatic polyisocyanate prepolymer		
	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%
4	diphenylmethanediisocyanate, isomeres and homologues		
	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%
5	diphenylmethane-2,4'-diisocyanate		
	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	>= 5.00 - < 10.00 wt%
6	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	>= 5.00 - < 10.00 wt%
7	2-methoxy-1-methylethyl acetate		
	108-65-6 203-603-9 607-195-00-7 01-2119475791-29	Flam. Liq. 3; H226 STOT SE 3; H336	>= 5.00 - < 10.00 wt%

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8	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	<	2.50	wt%
9	2,2'-methylenediphenyl diisocyanate				
	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	<	0.10	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)
4	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%	-	-
5	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%	-	-
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%	-	-
9	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
5	H373i inhalational; -; -
6	H373i inhalational; -; -
9	H373i inhalational; -; -

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.

After skin contact

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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 (CO₂); 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 CO₂)! 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. Use explosion-proof equipment/fittings and non-sparking tools.

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: CO₂ 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; Alkali metals; copper and copper alloys

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	acetone	67-64-1	200-662-2
	2000/39/EC		
	Acetone		
	WEL long-term (8-hr TWA reference period)	1210	mg/m ³ 500 ppm
	List of approved workplace exposure limits (WELs) / EH40		
	Acetone		
	WEL short-term (15 min reference period)	3620	mg/m ³ 1500 ppm
	WEL long-term (8-hr TWA reference period)	1210	mg/m ³ 500 ppm
2	diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	
	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	
3	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	

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4	2-methoxy-1-methylethyl acetate	108-65-6	203-603-9
List of approved workplace exposure limits (WELs) / EH40			
1-Methoxypropylacetate			
	WEL short-term (15 min reference period)	548	mg/m ³ 100 ppm
	WEL long-term (8-hr TWA reference period)	274	mg/m ³ 50 ppm
	Comments	Sk	
2000/39/EC			
2-Methoxy-1-methylethylacetate			
	WEL short-term (15 min reference period)	550	mg/m ³ 100 ppm
	WEL long-term (8-hr TWA reference period)	275	mg/m ³ 50 ppm
	Skin resorption / sensibilisation	Skin	

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

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	acetone			67-64-1 200-662-2	
	dermal	Long term (chronic)	systemic	186	mg/kg/day
	inhalative	Short term (acut)	local	2420	mg/m ³
	inhalative	Short term (acut)	systemic	1210	mg/m ³
2	diphenylmethane-2,4'-diisocyanate			5873-54-1 227-534-9	
	inhalative	Long term (chronic)	local	0.05	mg/m ³
	inhalative	Short term (acut)	local	0.1	mg/m ³
3	diphenylmethane-4,4'-diisocyanate			101-68-8 202-966-0	
	inhalative	Long term (chronic)	local	0.05	mg/m ³
	inhalative	Short term (acut)	local	0.1	mg/m ³
4	2-methoxy-1-methylethyl acetate			108-65-6 203-603-9	
	dermal	Long term (chronic)	systemic	796	mg/kg/day
	inhalative	Long term (chronic)	systemic	275	mg/m ³
	inhalative	Short term (acut)	local	550	mg/m ³

DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	acetone			67-64-1 200-662-2	
	oral	Long term (chronic)	systemic	62	mg/kg/day
	dermal	Long term (chronic)	systemic	62	mg/kg/day
	inhalative	Long term (chronic)	systemic	200	mg/m ³
2	diphenylmethane-2,4'-diisocyanate			5873-54-1 227-534-9	
	inhalative	Long term (chronic)	local	0.025	mg/m ³
	inhalative	Short term (acut)	local	0.05	mg/m ³
3	diphenylmethane-4,4'-diisocyanate			101-68-8 202-966-0	
	inhalative	Long term (chronic)	local	0.025	mg/m ³
	inhalative	Short term (acut)	local	0.05	mg/m ³
4	2-methoxy-1-methylethyl acetate			108-65-6 203-603-9	
	oral	Long term (chronic)	systemic	36	mg/kg/day
	oral	Short term (acut)	systemic	500	mg/kg/day
	dermal	Long term (chronic)	systemic	320	mg/kg/day
	inhalative	Long term (chronic)	systemic	33	mg/m ³

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inhalative	Long term (chronic)	local	33	mg/m ³
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PNEC values

No	Substance name	CAS / EC no		
ecological compartment	Type	Value		
1	acetone	67-64-1 200-662-2		
	water	fresh water	10.6	mg/L
	water	Aqua intermittent	21	mg/L
	water	marine water	1.06	mg/L
	water	fresh water sediment	30.4	mg/kg
	water	marine water sediment	3.04	mg/kg
	soil	-	29.5	mg/kg
	sewage treatment plant	-	100	mg/L
2	diphenylmethane-2,4'-diisocyanate	5873-54-1 227-534-9		
	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	diphenylmethane-4,4'-diisocyanate	101-68-8 202-966-0		
	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
	sewage treatment plant	-	1	mg/L
4	2-methoxy-1-methylethyl acetate	108-65-6 203-603-9		
	water	fresh water	0.635	mg/L
	water	marine water	0.064	mg/L
	water	fresh water sediment	3.29	mg/kg
	with reference to: dry weight			
	water	marine water sediment	0.329	mg/kg
	with reference to: dry weight			
	soil	-	0.29	mg/kg
	with reference to: dry weight			
	sewage treatment plant	-	100	mg/L

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)

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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.

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**

State of aggregation	
liquid	
Form	
liquid	
Colour	
yellowish	
Odour	
slightly aromatic	
pH value	
reason for missing pH	substance/mixture is non-soluble (in water)
Boiling point / boiling range	
Value	260 °C
Melting point/freezing point	
No data available	
Setting point / solidification range	
Value	-18 °C
Decomposition temperature	
No data available	
Flash point	
Value	< 15 °C
Method	DIN 51758
Ignition temperature	
Value	480 °C
Flammability	
No data available	
Lower explosion limit	
No data available	
Upper explosion limit	
No data available	
Vapour pressure	
Value	21 mbar
Reference temperature	20 °C
Value	45 mbar

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Reference temperature	50	°C
Value	50	mbar
Reference temperature	55	°C

Relative vapour density
No data available

Relative density
No data available

Density			
Value	appr.	0.978	g/cm ³
Reference temperature		20	°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	acetone	67-64-1	200-662-2
	log Pow		-0.23
	Method	QSAR	
	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	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	
4	2-methoxy-1-methylethyl acetate	108-65-6	203-603-9
	log Pow		1.2
	Reference temperature		20 °C
	Method	OECD 117	
	Source	ECHA	

Kinematic viscosity			
Value	appr.	2800	mPa*s
Reference temperature		23	°C

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.

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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; Alkali metals; Copper and copper alloys.

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	acetone	67-64-1	200-662-2
LD50		5800	mg/kg bodyweight
Species	rat		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	2-methoxy-1-methylethyl acetate	108-65-6	203-603-9
LD50	>	5000	mg/kg bodyweight
Species	rat		
Source	ECHA		

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	acetone	67-64-1	200-662-2
LD50	>	15800	mg/kg bodyweight
Species	rabbit		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	2-methoxy-1-methylethyl acetate	108-65-6	203-603-9
LD50	>	5000	mg/kg bodyweight
Species	rat		
Method	OECD 402		
Source	ECHA		

Acute inhalational toxicity (result of the ATE calculation for the mixture)	
Product Name	
WIDOPAN-Uini Primer	
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)).

Acute inhalational toxicity			
No	Substance name	CAS no.	EC no.
1	acetone	67-64-1	200-662-2
LC50		76	mg/l
Duration of exposure		4	h
State of aggregation	Vapour		

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Species	rat
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	acetone	67-64-1	200-662-2
Species	guinea pig		
Source	ECHA		
Evaluation	non-irritant		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	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.		
3	2-methoxy-1-methylethyl acetate	108-65-6	203-603-9
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	non-irritant		

Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	acetone	67-64-1	200-662-2
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	irritant		
Evaluation/classification	Based on available data, the classification criteria are met.		
2	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.		
3	2-methoxy-1-methylethyl acetate	108-65-6	203-603-9
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	non-irritant		

Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	acetone	67-64-1	200-662-2
Route of exposure	Skin		
Species	guinea pig		
Source	ECHA		
Evaluation	non-sensitizing		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	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		

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Method	OECD 406
Source	ECHA
Evaluation	sensitizing
Evaluation/classification	Based on available data, the classification criteria are met.
3	2-methoxy-1-methylethyl acetate 108-65-6 203-603-9
Route of exposure	Skin
Species	guinea pig
Method	OECD 406
Source	ECHA
Evaluation	non-sensitizing

Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.
1	acetone	67-64-1	200-662-2
Type of examination	in vitro gene mutation study in bacteria		
Species	Salmonella typhimurium		
Method	OECD 471		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Type of examination	In vitro Mammalian Chromosomal Aberration Test		
Species	Chinese hamster Ovary (CHO)		
Method	OECD 473		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Type of examination	in vitro gene mutation study in mammalian cells		
Species	Mouse lymphoma cells		
Method	OECD 476		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
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.		
3	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.		

Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	acetone	67-64-1	200-662-2
Route of exposure	inhalational		
NOAEC	2200		ppm
Type of examination	Prenatal Developmental Toxicity Study		
Species	rat		
Method	OECD 414		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Carcinogenicity			
No	Substance name	CAS no.	EC no.
1	acetone	67-64-1	200-662-2
Route of exposure	dermal		
Type of examination	Toxicity study		
Species	mouse		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	diphenylmethane-4,4'-diisocyanate	101-68-8	202-966-0
Route of exposure	inhalational		

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NOAEC	0.7	mg/m ³
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	acetone	67-64-1	200-662-2
Route of exposure		oral	
NOAEL	10000	ppm	
Species	rat		
Method	OECD 408		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Route of exposure		inhalational	
NOAEC	19000	ppm	
Species	rat		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	diphenylmethane-4,4'-diisocyanate	101-68-8	202-966-0
Route of exposure		inhalational	
LOAEC	0.23	mg/m ³	
Species	rat		
Method	87/302/EEC, Part B, p37		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are met.		

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	acetone	67-64-1	200-662-2
LC50	5540	mg/l	
Duration of exposure	96	h	
Species	Oncorhynchus mykiss		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

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2	2-methoxy-1-methylethyl acetate	108-65-6	203-603-9
LC50		100	- 180 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	Substance name	CAS no.	EC no.
1	acetone	67-64-1	200-662-2
EC50			8800 mg/l
Duration of exposure			48 h
Species	Daphnia pulex		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Toxicity to Daphnia (chronic)

No data available

Toxicity to algae (acute)

No	Substance name	CAS no.	EC no.
1	2-methoxy-1-methylethyl acetate	108-65-6	203-603-9
EC50			> 1000 mg/l
Duration of exposure			72 h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		

Toxicity to algae (chronic)

No data available

Bacteria toxicity

No data available

12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	acetone	67-64-1	200-662-2
Type	aerobic biodegradation		
Value		90.9	%
Duration		28	day(s)
Method	OECD 301 B		
Source	ECHA		
Evaluation	readily biodegradable		
2	diphenylmethane-4,4'-diisocyanate	101-68-8	202-966-0
Type	aerobic biodegradation		
Value		0	%
Duration		28	d
Method	OECD 301 F		
Source	ECHA		
Evaluation	not readily biodegradable		
3	2-methoxy-1-methylethyl acetate	108-65-6	203-603-9
Type	aerobic biodegradation		
Value		90	%
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	diphenylmethane-2,4'-diisocyanate	5873-54-1	227-534-9
BCF		92 - 200	
Method		OECD 305 E	
Source		ECHA	
2	diphenylmethane-4,4'-diisocyanate	101-68-8	202-966-0
BCF		92 - 200	
Species		Cyprinus carpio	
Method		OECD 305 E	
Source		ECHA	
Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	acetone	67-64-1	200-662-2
log Pow		-0.23	
Method		QSAR	
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	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	
4	2-methoxy-1-methylethyl acetate	108-65-6	203-603-9
log Pow		1.2	
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

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 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.

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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**

ADR/RID/ADN	UN1993
IMDG	UN1993
ICAO-TI / IATA	UN1993

14.2 UN proper shipping name

ADR/RID/ADN	FLAMMABLE LIQUID, N.O.S.
Technical name	acetone 2-methoxy-1-methylethyl acetate
IMDG	FLAMMABLE LIQUID, N.O.S.
Technical name	acetone 2-methoxy-1-methylethyl acetate
ICAO-TI / IATA	Flammable liquid, n.o.s.
Technical name	acetone 2-methoxy-1-methylethyl acetate

14.3 Transport hazard class(es)

ADR/RID/ADN - Class	3
Label	3
Classification code	F1
Tunnel restriction code	D/E
Hazard identification no.	33
Special Provision 640	640D
IMDG - Class	3
Label	3
ICAO-TI / IATA - Class	3
Label	3

14.4 Packing group

ADR/RID/ADN	II
IMDG	II
ICAO-TI / IATA	II

14.5 Environmental hazards

EmS	F-E, S-E
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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)

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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

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	2,2'-methylenediphenyl diisocyanate	2536-05-2	219-799-4	75
2	2-methoxypropyl acetate	70657-70-4	274-724-2	75
3	acetone	67-64-1	200-662-2	75
4	dibutyltin-dilaurate	77-58-7	201-039-8	75
5	diphenylmethane-2,4'-diisocyanate	5873-54-1	227-534-9	56, 74, 75, 77
6	diphenylmethane-4,4'-diisocyanate	101-68-8	202-966-0	56, 74, 75, 77
7	diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	-	56, 74, 75, 77
8	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: P5b

15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for one or more of the substances within this mixture.

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.
EUH066	Repeated exposure may cause skin dryness or cracking.
H226	Flammable liquid and vapour.
H332	Harmful if inhaled.
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
 Georg-Wilhelm-Str. 187, D-21107 Hamburg

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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:

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

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