

Safety data sheet according to UK REACH

Printing date 10.06.2025

Version No. 7

Revision: 10.06.2025

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

- **1.1 Product identifier**
- **Trade name:** UZIN KR 516 Comp. A
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** No special requirements.
- **Sector of Use**
 SU19 Building and construction work
 SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
 For professional use only.
- **Product category** PC1 Adhesives, sealants
- **Application of the substance / the mixture** 2-Component Silicate Resin
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 Producer:
 UZIN UTZ SE
 Dieselstraße 3
 D-89079 Ulm
 Phone +49 731 4097-0

 Supplier in the UK:
 Uzin Utz UK Ltd.
 Unit 2, Mitchell Court
 Central Park, Rugby
 Warwickshire, CV23 0UY,
 Phone +44 1788 530 080
 Email: info@uk.uzin-utz.com
- **Further information obtainable from:**
 Product safety department
 msds.info@uzin-utz.com
- **1.4 Emergency telephone number:**
 Medical emergencies (GIZ-Nord Poisons Center): +49 551 19240
 Transportation emergencies: +49 621 60 43 333

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
 GHS07

 Skin Irrit. 2 H315 Causes skin irritation.
 Eye Irrit. 2 H319 Causes serious eye irritation.
- **Additional information:** Also observe the safety data sheet of component B.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
 The product is classified and labelled according to the GB CLP regulation.
- **Hazard pictograms**
 GHS07
- **Signal word** Warning

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- **Hazard statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

- **Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:**

This substance/mixture does not contain any components that can be considered persistent, bioaccumulative and toxic (PBT).

- **vPvB:**

This substance/mixture does not contain any components that can be considered very persistent and very bioaccumulative (vPvB) at levels of 0.1%.

- **Determination of endocrine-disrupting properties**

This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**

- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 1344-09-8 EINECS: 215-687-4	Silicic acid, sodium salt	⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	75-100%
CAS: 107-21-1 EINECS: 203-473-3	ethanediol	⚠ Acute Tox. 4, H302	1-<3%

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**

- **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

No special measures required.

- **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

Seek medical treatment in case of complaints.

In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact:**

Remove contaminated clothing and shoes immediately and wash or clean thoroughly before reuse.

- **After eye contact:**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

- **After swallowing:**

Do not induce vomiting; call for medical help immediately.

A person vomiting while laying on their back should be turned onto their side.

Clean mouth carefully and rinse with water.

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

This product is irritating and sensitising by inhalation: repeated inhalation of concentrations of vapours or aerosols above the limit value may cause sensitisation of the respiratory tract.

The following symptoms may occur, among others: Irritation of eyes, nose, throat and lungs, probably together with dry throat, chest tightness and difficulty breathing.

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

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Also observe the safety data sheet of component B.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· Suitable extinguishing agents:

CO₂ powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· For safety reasons unsuitable extinguishing agents: Water with full jet

· 5.2 Special hazards arising from the substance or mixture

Special hazards during firefighting:

Under the influence of heat, pressure may rise in tightly closed containers.

Inhalation of decomposition products may cause damage to health.

· 5.3 Advice for firefighters

· Protective equipment: Mouth respiratory protective device.

· Additional information

Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

Keep contaminated washing water and dispose of appropriately.

In case of seepage into the ground inform responsible authorities.

· 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Wear suitable protective clothing, gloves and eye/face protection.

Immediately remove all soiled and contaminated clothing

Avoid contact with the eyes and skin.

Keep away from foodstuffs, beverages and feed.

Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is used.

Wash hands before breaks and at the end of work.

Also observe the safety data sheet of component B.

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- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep container tightly sealed.
Carefully close opened containers and store upright to prevent any leakage.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

- **Ingredients with limit values that require monitoring at the workplace:**

CAS: 107-21-1 ethanediol

WEL	Short-term value: 104** mg/m ³ , 40** ppm
	Long-term value: 10* 52** mg/m ³ , 20** ppm
	Sk *particulate **vapour

· **DNELs**

CAS: 1344-09-8 Silicic acid, sodium salt

Inhalative	DNEL - longtime effect	5.61 mg/m ³ (worker)
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CAS: 107-21-1 ethanediol

Dermal	DNEL - longtime effect	53 mg/kg (human/consumer) 106 mg/kg (worker)
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· **PNECs**

CAS: 1344-09-8 Silicic acid, sodium salt

PNEC - seawater	1,000 µg/l (seawater)
PNEC - freshwater	7,500 µg/l (freshwater)

CAS: 107-21-1 ethanediol

PNEC - seawater	1,000 µg/l (seawater)
PNEC - freshwater	10,000 µg/l (freshwater)
PNEC - soil	1,530 µg/kg (ground)

· 8.2 Exposure controls

- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
Immediately remove all soiled and contaminated clothing
Avoid contact with the eyes and skin.
Wear suitable protective clothing, gloves and eye/face protection.
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Also observe the safety data sheet of component B.
- **Respiratory protection:**
Not necessary. Ensure that room is well-ventilated during processing.
In case of hypersensitivity of the respiratory tract (asthma, chronic bronchitis), handling of the product is not recommended.
Respiratory protection required in insufficiently ventilated working areas. An air-fed mask, or for short periods of work, a combination of charcoal filter and particulate filter is recommended (A2-P2).

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· Hand protection

When handling freshly produced polyurethane products, protective gloves must be worn to avoid skin contact with traces of residues, as these can be harmful to health.



Use gloves of stable material (e.g. Nitrile) - if necessary tricoted to improve the wearability (EN 374)

Gloves must be disposed of immediately in case of heavy soiling, in case of splashes after the specified maximum wearing time, but at the latest at the end of the shift.

· Material of gloves

Butyl rubber, BR

Nitrile rubber, NBR

Note: Suitable materials that provide sufficient protection for industrial cleaning with aprotic polar solvents (according to IUPAC definition):

Butyl rubber (0.7 mm), nitrile rubber (0.4 mm), chloroprene (0.5 mm).

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

At least 480 minutes.

· Eye/face protection



Tightly sealed goggles or face protection (EN 166)

· Body protection:

Use chemical-resistant protective clothing.

In case of hypersensitivity of the skin, handling of the product is not recommended.

· Other

The personal protective equipment consists of: suitable protective gloves, safety goggles and protective clothing.

Ensure that eyewash stations and safety showers are located close to the workplace.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Physical state

Liquid

· Colour:

Colourless

· Odour:

Characteristic

· Odour threshold:

Not determined.

· Melting point/freezing point:

Undetermined.

· Boiling point or initial boiling point and boiling range

Undetermined.

· Flammability

Not applicable.

· Lower and upper explosion limit

· Lower:

Not determined.

· Upper:

Not determined.

· Flash point:

>100 °C

· Decomposition temperature:

Not determined.

· pH at 20 °C

~11

· Viscosity:

· Kinematic viscosity

Not determined.

· Dynamic at 20 °C:

270 mPas

· Solubility

· water:

Not miscible or difficult to mix.

· Partition coefficient n-octanol/water (log value)

Not determined.

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· Vapour pressure:	Not determined.
· Density and/or relative density	
· Density at 20 °C:	1.48 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· 9.2 Other information	
· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
· Change in condition	
· Evaporation rate	Not determined.
· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

* SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability Stable under normal conditions.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.
- Additional information: Also observe the safety data sheet of component B.

* SECTION 11: Toxicological information

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

CAS: 1344-09-8 Silicic acid, sodium salt

Oral	LD50	3,400 mg/kg (Rat)
Dermal	LD50	5,000 mg/kg (Rat)

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CAS: 107-21-1 ethanediol

Oral	LD50	5,840 mg/kg (Rat)
Dermal	LD50	9,530 mg/kg (rabbit)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

· **Additional toxicological information:** Also observe the safety data sheet of component B.

· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

CAS: 1344-09-8 Silicic acid, sodium salt

EC50/48h	1,700 mg/l (Daphnia magna)
LC50/96h	1,108 mg/l (Danio rerio)
	260 mg/l (Oncorhynchus mykiss)

CAS: 107-21-1 ethanediol

EC50/48h	13,900 mg/l (Daphnia magna)
LC50/96h	72,860 mg/l (pim)
	6,500 mg/l (Pseudokirchneriella subcapitata)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:**
This substance/mixture does not contain any components that can be considered persistent, bioaccumulative and toxic (PBT).
- **vPvB:**
This substance/mixture does not contain any components that can be considered very persistent and very bioaccumulative (vPvB) at levels of 0.1%.
- **12.6 Endocrine disrupting properties**
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Additional ecological information:**
- **General notes:** Do not allow product to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Do not allow product to reach sewage system.

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Mix both product components, allow to harden, then dispose of as construction waste.
Disposal should be in accordance with local, state or national legislation.

· **Uncleaned packaging:**

· **Recommendation:**

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

SECTION 14: Transport information

· **14.1 UN number or ID number**

· ADR, ADN, IMDG, IATA Void

· **14.2 UN proper shipping name**

· ADR, ADN, IMDG, IATA Void

· **14.3 Transport hazard class(es)**

· ADR, ADN, IMDG, IATA

· Class Void

· **14.4 Packing group**

· ADR, IMDG, IATA Void

· **14.5 Environmental hazards:**

· Marine pollutant: No

· **14.6 Special precautions for user**

Not applicable.

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

Not applicable.

· **Transport/Additional information:**

Not dangerous according to the above specifications.

· **UN "Model Regulation":**

Void

SECTION 15: Regulatory information

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

· **Poisons Act**

· **Regulated explosives precursors**

None of the ingredients is listed.

· **Regulated poisons**

None of the ingredients is listed.

· **Reportable explosives precursors**

None of the ingredients is listed.

· **Reportable poisons**

None of the ingredients is listed.

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

· **Relevant phrases**

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

· **Recommended restriction of use** *For professional use only.*

· **Classification according to Regulation (EC) No 1272/2008**

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

· **Department issuing SDS:** *Product safety department*

· **Contact:**

Product Safety Department

Phone: +49 731 4097-0

msds.info@uzin-utz.com

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

· *** Data compared to the previous version altered.**

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

- **1.1 Product identifier**
- **Trade name:** UZIN KR 516 Comp. B
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** No special requirements.
- **Sector of Use**
 SU19 Building and construction work
 SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
 For professional use only.
- **Product category** PC1 Adhesives, sealants
- **Application of the substance / the mixture** 2-Component Silicate Resin
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 Producer:
 UZIN UTZ SE
 Dieselstraße 3
 D-89079 Ulm
 Phone +49 731 4097-0

 Supplier in the UK:
 Uzin Utz UK Ltd.
 Unit 2, Mitchell Court
 Central Park, Rugby
 Warwickshire, CV23 0UY,
 Phone +44 1788 530 080
 Email: info@uk.uzin-utz.com
- **Further information obtainable from:**
 Product safety department
 msds.info@uzin-utz.com
- **1.4 Emergency telephone number:**
 Medical emergencies (GIZ-Nord Poisons Center): +49 551 19240
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SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS08 health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 Carc. 2 H351 Suspected of causing cancer.
 STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Acute Tox. 4 H332 Harmful if inhaled.
 Skin Irrit. 2 H315 Causes skin irritation.
 Eye Irrit. 2 H319 Causes serious eye irritation.
 Skin Sens. 1 H317 May cause an allergic skin reaction.
 STOT SE 3 H335 May cause respiratory irritation.

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· 2.2 Label elements

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

The product is classified and labelled according to the GB CLP regulation.

· Hazard pictograms



GHS07 GHS08

· Signal word Danger

· Hazard-determining components of labelling:

Diphenylmethanediisocyanate, isomers and homologues

Methylenediphenyl diisocyanate

· Hazard statements

H332 Harmful if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

· Precautionary statements

P201 Obtain special instructions before use.

P280 Wear protective gloves / eye protection / face protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

· Additional information:

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

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT:

This substance/mixture does not contain any components that can be considered persistent, bioaccumulative and toxic (PBT).

· vPvB:

This substance/mixture does not contain any components that can be considered very persistent and very bioaccumulative (vPvB) at levels of 0.1%.

· Determination of endocrine-disrupting properties

This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

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· Dangerous components:		
CAS: 9016-87-9	Diphenylmethanediisocyanate, isomers and homologues ⚠ Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0.1 % STOT SE 3; C ≥ 5 %	75-100%
CAS: 101-68-8 EINECS: 202-966-0 Reg.nr.: 01-2119457014-47	Methylenediphenyl diisocyanate ⚠ Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0.1 % STOT SE 3; C ≥ 5 %	<1%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air; consult doctor in case of complaints.

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

Seek medical treatment in case of complaints.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Remove contaminated clothing and shoes immediately and wash or clean thoroughly before reuse.

· After eye contact:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

· After swallowing:

Do not induce vomiting; call for medical help immediately.

A person vomiting while laying on their back should be turned onto their side.

Clean mouth carefully and rinse with water.

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

Allergic reactions

Asthma attacks

This product is irritating and sensitising by inhalation: repeated inhalation of concentrations of vapours or aerosols above the limit value may cause sensitisation of the respiratory tract.

The following symptoms may occur, among others: Irritation of eyes, nose, throat and lungs, probably together with dry throat, chest tightness and difficulty breathing.

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

Also observe the safety data sheet of component A.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
CO₂ powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**
Special hazards during firefighting:
Under the influence of heat, pressure may rise in tightly closed containers.
Inhalation of decomposition products may cause damage to health.
- **5.3 Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.
- **Additional information**
Cool endangered receptacles with water spray.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
- **6.2 Environmental precautions:**
Do not allow to enter sewers/ surface or ground water.
Inform respective authorities in case of seepage into water course or sewage system.
Keep contaminated washing water and dispose of appropriately.
In case of seepage into the ground inform responsible authorities.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Wear suitable protective clothing, gloves and eye/face protection.
Immediately remove all soiled and contaminated clothing
Avoid contact with the eyes and skin.
Keep away from foodstuffs, beverages and feed.
Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is used.
Wash hands before breaks and at the end of work.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep container tightly sealed.
Protect from humidity and water.
Carefully close opened containers and store upright to prevent any leakage.
Once opened unfinished quantities must be stored in airtight packaging conditions.

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· 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

CAS: 9016-87-9 Diphenylmethanediisocyanate, isomers and homologues

WEL Short-term value: 0.07 mg/m³
Long-term value: 0.02 mg/m³
Sen; as -NCO

CAS: 101-68-8 Methylenediphenyl diisocyanate

WEL Short-term value: 0.07 mg/m³
Long-term value: 0.02 mg/m³
Sen; as -NCO

· DNELs

CAS: 9016-87-9 Diphenylmethanediisocyanate, isomers and homologues

Dermal	DNEL - short time effect	50 mg/kg (human/consumer)
	DNEL - longtime effect	0.05 mg/kg (human/consumer)
Inhalative	DNEL - acut effect	0.1 mg/mg ³ (worker)
	DNEL - longtime effect	0.025 mg/m ³ (human/consumer) 0.05 mg/m ³ (worker)

CAS: 101-68-8 Methylenediphenyl diisocyanate

Dermal	DNEL	50 mg/kg / bw/day (worker)
Inhalative	DNEL - acut effect	0.1 mg/mg ³ (worker)
	DNEL - longtime effect	0.05 mg/m ³ (worker)

· PNECs

CAS: 101-68-8 Methylenediphenyl diisocyanate

PNEC - seawater	100 µg/l (seawater)
PNEC - freshwater	1,000 µg/l (freshwater)
PNEC - sediment	1 mg/kg (ground)

· Ingredients with biological limit values:

CAS: 9016-87-9 Diphenylmethanediisocyanate, isomers and homologues

BMGV 1 µmol creatinine/mol
Medium: urine
Sampling time: At the end of the period od exposure
Parameter: isocyanate-derived diamine

CAS: 101-68-8 Methylenediphenyl diisocyanate

BMGV 1 µmol creatinine/mol
Medium: urine
Sampling time: At the end of the period od exposure
Parameter: isocyanate-derived diamine

· 8.2 Exposure controls

· Appropriate engineering controls No further data; see section 7.

· Individual protection measures, such as personal protective equipment

· General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing

Avoid contact with the eyes and skin.

Wear suitable protective clothing, gloves and eye/face protection.

Keep away from foodstuffs, beverages and feed.

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Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is used.

Wash hands before breaks and at the end of work.

· **Respiratory protection:**

Not necessary. Ensure that room is well-ventilated during processing.

In case of hypersensitivity of the respiratory tract (asthma, chronic bronchitis), handling of the product is not recommended.

Respiratory protection required in insufficiently ventilated working areas. An air-fed mask, or for short periods of work, a combination of charcoal filter and particulate filter is recommended (A2-P2).

· **Hand protection**

When handling freshly produced polyurethane products, protective gloves must be worn to avoid skin contact with traces of residues, as these can be harmful to health.



Use gloves of stable material (e.g. Nitrile) - if necessary tricoted to improve the wearability (EN 374)

Gloves must be disposed of immediately in case of heavy soiling, in case of splashes after the specified maximum wearing time, but at the latest at the end of the shift.

· **Material of gloves**

Butyl rubber, BR

Nitrile rubber, NBR

Note: Suitable materials that provide sufficient protection for industrial cleaning with aprotic polar solvents (according to IUPAC definition):

Butyl rubber (0.7 mm), nitrile rubber (0.4 mm), chloroprene (0.5 mm).

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

At least 480 minutes.

· **Eye/face protection**



Tightly sealed goggles or face protection (EN 166)

· **Body protection:**

Use chemical-resistant protective clothing.

In case of hypersensitivity of the skin, handling of the product is not recommended.

· **Other**

The personal protective equipment consists of: suitable protective gloves, safety goggles and protective clothing.

Ensure that eyewash stations and safety showers are located close to the workplace.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Physical state**

Liquid

· **Colour:**

Brown

· **Odour:**

Light

· **Odour threshold:**

Not determined.

· **Melting point/freezing point:**

Undetermined.

· **Boiling point or initial boiling point and boiling range**

>200 °C

· **Flammability**

Not applicable.

· **Lower and upper explosion limit**

· **Lower:**

Not determined.

· **Upper:**

Not determined.

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· Flash point:	>100 °C
· Auto-ignition temperature:	>400 °C
· Decomposition temperature:	Not determined.
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic at 20 °C:	~160 mPas
· Solubility	
· water:	Not miscible or difficult to mix.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure:	Not determined.
· Density and/or relative density	
· Density at 20 °C:	1.1 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· 9.2 Other information	
· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
· Change in condition	
· Evaporation rate	Not determined.
· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:**
From approx. 260°C, polymerization and separation of CO₂
- **10.3 Possibility of hazardous reactions**
May produce violent reactions with bases and numerous organic substances including alcohols and amines.
The product reacts slowly with water resulting in evolution of carbon dioxide. In closed containers, pressure build up could result in distortion, blowing and in extreme cases bursting of the container.
- **10.4 Conditions to avoid** Avoid heating to above 40°C and cooling to below 10°C.

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· **10.5 Incompatible materials:**

Uncontrolled exothermic reactions occur with amines and alcohols.
During storage, avoid moisture contamination.

· **10.6 Hazardous decomposition products:**

In a fire, hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide, oxides of nitrogen, hydrogen cyanide, monomer isocyanates, amines and alcohols may be produced.

SECTION 11: Toxicological information

· **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

· **Acute toxicity** Harmful if inhaled.

· **LD/LC50 values relevant for classification:**

CAS: 9016-87-9 Diphenylmethanediisocyanate, isomers and homologues

Oral	LD50	>2,000 mg/kg (Rat)
Dermal	LD50	>9,000 mg/kg (Rat) (OECD 404)
Inhalative	LC50/4 h	1.4 mg/l (Rat) (OECD 403)

CAS: 101-68-8 Methylenediphenyl diisocyanate

Oral	LD50	>2,000 mg/kg (Rat)
Dermal	LD50	>9,000 mg/kg (rabbit)
Inhalative	LC50/4 h	0.37 mg/l (Rat)

· **Primary irritant effect:**

· **Skin corrosion/irritation** Causes skin irritation.

· **Serious eye damage/irritation** Causes serious eye irritation.

· **Respiratory or skin sensitisation**

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

May cause an allergic skin reaction.

· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

· **Carcinogenicity** Suspected of causing cancer.

· **Reproductive toxicity** Based on available data, the classification criteria are not met.

· **STOT-single exposure** May cause respiratory irritation.

· **STOT-repeated exposure** May cause damage to organs through prolonged or repeated exposure.

· **Aspiration hazard** Based on available data, the classification criteria are not met.

· **Additional toxicological information:**

Based on the properties of the isocyanate components and considering toxicological data on similar preparations, this preparation may cause acute irritation and/or sensitization of the respiratory system leading to an asthmatic condition, wheeziness and a tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability.

· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Diphenylmethane-diisocyanate, isomers and homologues, CAS 9016-87-9

Carcinogenicity: May cause cancer by inhalation. On the basis of these data classification as carcinogenic is therefore required (H351).

Mutagenicity: In vitro and in vivo tests did not show mutagenic effects.

Teratogenicity: Did not show teratogenic effects in animal experiments.

Reproductive toxicity/Fertility: Based on available data, the classification criteria are not met.

· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

CAS: 9016-87-9 Diphenylmethanediisocyanate, isomers and homologues

EC50/72h 1,640 mg/l (*Scenedesmus subspicatus*) (OECD 201)

LC50/96h >1,000 mg/l (*Danio rerio*) (OECD 203)

CAS: 101-68-8 Methylenediphenyl diisocyanate

LC50/96h >1,000 mg/l (*Danio rerio*) (OECD 203)

12.2 Persistence and degradability

Diphenylmethane diisocyanate, isomers and homologues, CAS 9016-87-9

Test type: aerobic, inoculum: activated sludge

Biodegradation: 0 %, 28 d, i.e. not potentially degradable

Method: OECD test guideline 302 C

According to the results of the biodegradability tests, this product is not readily degradable.

12.3 Bioaccumulative potential

Diphenylmethane diisocyanate, isomers and homologues, CAS 9016-87-9

Bioconcentration factor (BCF): 92

Species: *Cyprinus carpio* (carp)

Exposure duration: 28 d, concentration: 0.8 µg/l (OECD 305 E)

Test on a comparable product.

Accumulation in aquatic organisms is not expected.

The substance hydrolyses rapidly in water.

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT:

This substance/mixture does not contain any components that can be considered persistent, bioaccumulative and toxic (PBT).

vPvB:

This substance/mixture does not contain any components that can be considered very persistent and very bioaccumulative (vPvB) at levels of 0.1%.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Additional ecological information:

General notes: Do not allow product to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Do not allow product to reach sewage system.

Mix both product components, allow to harden, then dispose of as construction waste.

Disposal should be in accordance with local, state or national legislation.

Uncleaned packaging:

Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

SECTION 14: Transport information

14.1 UN number or ID number

ADR, ADN, IMDG, IATA

Void

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· 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	Void
· 14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA · Class	Void
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable.
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications. Avoid heating to above 40°C and cooling to below 10°C.
· UN "Model Regulation":	Void

*

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Poisons Act

· Regulated explosives precursors

None of the ingredients is listed.

· Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

None of the ingredients is listed.

· Reportable poisons

None of the ingredients is listed.

· Directive 2012/18/EU

- Named dangerous substances - ANNEX I None of the ingredients is listed.
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 56a, 74

- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

*

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

· Relevant phrases

- 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.

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EUH204 Contains isocyanates. May produce an allergic reaction.· **Recommended restriction of use** *For professional use only.*· **Classification according to Regulation (EC) No 1272/2008***The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.*· **Department issuing SDS:** *Product safety department*· **Contact:***Product Safety Department**Phone: +49 731 4097-0**msds.info@uzin-utz.com*· **Abbreviations and acronyms:***RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)**ICAO: International Civil Aviation Organisation**ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)**IMDG: International Maritime Code for Dangerous Goods**IATA: International Air Transport Association**GHS: Globally Harmonised System of Classification and Labelling of Chemicals**EINECS: European Inventory of Existing Commercial Chemical Substances**ELINCS: European List of Notified Chemical Substances**CAS: Chemical Abstracts Service (division of the American Chemical Society)**DNEL: Derived No-Effect Level (UK REACH)**PNEC: Predicted No-Effect Concentration (UK REACH)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**Acute Tox. 4: Acute toxicity – Category 4**Skin Irrit. 2: Skin corrosion/irritation – Category 2**Eye Irrit. 2: Serious eye damage/eye irritation – Category 2**Resp. Sens. 1: Respiratory sensitisation – Category 1**Skin Sens. 1: Skin sensitisation – Category 1**Carc. 2: Carcinogenicity – Category 2**STOT SE 3: Specific target organ toxicity (single exposure) – Category 3**STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2*· *** Data compared to the previous version altered.**

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