

Safety Data Sheet

According to the Globally Harmonised System (GHS)

Printing date 21.01.2026

Version No. 1

Revision: 21.01.2026

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

- **Product identifier**
- **Trade name:** UZIN KR 516 Comp. A
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use** For professional use only.
- **Application of the substance / the mixture** 2-Component Silicate Resin
- **Uses advised against:** No further relevant information available.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 Manufacturer:
 UZIN UTZ SE
 Dieselstrasse 3
 D-89079 Ulm, Germany
 Phone: +49 731 4097-0

 Supplier:
 Uzin Utz Middle East Trading LLC
 Al Hudaiba Mall, 2nd Floor
 Al Mina Street, Al Hudaiba
 PO Box 126732
 Dubai, United Arab Emirates

 Phone: +971 4 510 1323
 Fax: +971 4 454 2310
- **Further information obtainable from:**
 Product safety department
 msds.info@uzin-utz.com
- **Emergency telephone number:**
 Emergency telephone number:
 Monday to Friday between 07:00 and 17:00: Phone +971 4 510 1323
 Outside of working hours: Phone 998

2 Hazards identification

- **Classification of the substance or mixture**



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

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

- **Label elements**

- **GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

- **Hazard pictograms**



GHS07

- **Signal word** Warning

- **Hazard statements**

Causes skin irritation.

Causes serious eye irritation.

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· Precautionary statements*Wear protective gloves/protective clothing/eye protection/face protection.**IF ON SKIN: Wash with plenty of soap and water.**IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**If skin irritation occurs: Get medical advice/attention.**If eye irritation persists: Get medical advice/attention.***· Other hazards****· 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%.*

3 Composition/information on ingredients

· Chemical characterisation: Mixtures**· Description:** Mixture of substances listed below with nonhazardous additions.**· Dangerous components:**

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

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

4 First aid measures

· 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.**No special measures required.***· 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.***· Information for doctor:****· 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 difficult breathing.*

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· **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.

5 Firefighting measures

· **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

· **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.

· **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.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

· **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.

· **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.

· **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.

7 Handling and storage

· **Handling:**

· **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.

· **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

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· **Further information about storage conditions:**

Keep container tightly sealed.

Carefully close opened containers and store upright to prevent any leakage.

Once opened unfinished quantities must be stored in airtight packaging conditions.

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

8 Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see section 7.

· **Control parameters**

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

CAS: 107-21-1 ethanediol

TLV (USA)	Short-term value: 10** mg/m ³ , 50* ppm Long-term value: 25* ppm *vapor fraction: **inh. fraction, aerosol only, A4
WEEL (USA)	I (2)
IOELV (EU)	Short-term value: 104 mg/m ³ , 40 ppm Long-term value: 52 mg/m ³ , 20 ppm Skin
WEL (Great Britain)	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)

· **Exposure controls**

· **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.

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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).

· **Protection of hands:**

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.

Only use water and mild soap or a pH-neutral skin cleanser to cleanse the skin. Do not use solvents.

· **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 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.

9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form:

Fluid

Colour:

Colourless

· **Odour:**

Characteristic

· **Odour threshold:**

Not determined

· **pH-value at 20 °C:**

~11

· **Change in condition**

Melting point/freezing point:

Undetermined

Initial boiling point and boiling range:

Undetermined

· **Flash point:**

>100 °C

· **Flammability**

Not applicable

· **Decomposition temperature:**

Not determined

· **Ignition temperature:**

Product is not selfigniting.

· **Explosive properties:**

Product does not present an explosion hazard.

· **Explosion limits:**

Lower:

Not determined

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Upper:	Not determined
· Vapour pressure:	Not determined
· Density at 20 °C:	1.48 g/cm ³
· Relative density	Not determined
· Vapour density	Not determined
· Evaporation rate	Not determined
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined
· Viscosity:	
Dynamic at 20 °C:	270 mPas
Kinematic:	Not determined
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity**

· **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)

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** Irritant to skin and mucous membranes.
- **Serious eye damage/irritation** Irritating effect.
- **Respiratory or skin sensitisation** No sensitising effects known.

· **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.
Also observe the safety data sheet of component B.

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

None of the ingredients is listed.

12 Ecological information

· **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*)· **Persistence and degradability** No further relevant information available.· **Behaviour in environmental systems:**· **Bioaccumulative potential** No further relevant information available.· **Mobility in soil** No further relevant information available.· **Additional ecological information:**· **General notes:** Do not allow product to reach ground water, water course or sewage system.· **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%.

· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **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.

14 Transport information

· **UN-Number**· **ADR, ADN, IMDG, IATA**

Void

· **UN proper shipping name**· **ADR, ADN, IMDG, IATA**

Void

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· Transport hazard class(es)	
· ADR, ADN, IMDG, IATA	
· Class	Void
· Packing group	
· ADR, IMDG, IATA	Void
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Not applicable
· Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	Void

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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.

- **Relevant phrases**
H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
- **Contact:**
Product Safety Department
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
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 (REACH)
PNEC: Predicted No-Effect Concentration (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. 2A: Serious eye damage/eye irritation – Category 2A

- AE

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

- **Product identifier**
- **Trade name:** UZIN KR 516 Comp. B
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use** For professional use only.
- **Application of the substance / the mixture** 2-Component Silicate Resin
- **Uses advised against:** No further relevant information available.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 Manufacturer:
 UZIN UTZ SE
 Dieselstrasse 3
 D-89079 Ulm, Germany
 Phone: +49 731 4097-0

 Supplier:
 Uzin Utz Middle East Trading LLC
 Al Hudaiba Mall, 2nd Floor
 Al Mina Street, Al Hudaiba
 PO Box 126732
 Dubai, United Arab Emirates

 Phone: +971 4 510 1323
 Fax: +971 4 454 2310
- **Further information obtainable from:**
 Product safety department
 msds.info@uzin-utz.com
- **Emergency telephone number:**
 Emergency telephone number:
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 Outside of working hours: Phone 998

2 Hazards identification

- **Classification of the substance or mixture**



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. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

Acute Tox. 5 H303 May be harmful if swallowed.

- **Additional information:** Also observe the safety data sheet of component A.

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· **Label elements**· **GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

· **Hazard pictograms**

GHS07 GHS08

· **Signal word** *Danger*· **Hazard-determining components of labelling:**

Diphenylmethanediisocyanate, isomers and homologues

Methylenediphenyl diisocyanate

· **Hazard statements**

May be harmful if swallowed.

Harmful if inhaled.

Causes skin irritation.

Causes serious eye irritation.

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

May cause an allergic skin reaction.

Suspected of causing cancer.

May cause respiratory irritation.

May cause damage to organs through prolonged or repeated exposure.

· **Precautionary statements**

Obtain special instructions before use.

Wear protective gloves / eye protection / face protection.

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

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

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

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

If eye irritation persists: Get medical advice/attention.

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

· **Other hazards**· **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%.

3 Composition/information on ingredients

· **Chemical characterisation: Mixtures**· **Description:** Mixture of substances listed below with nonhazardous additions.· **Dangerous components:**

CAS: 9016-87-9	<i>Diphenylmethanediisocyanate, isomers and homologues</i> ⚠ 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	75-100%
CAS: 101-68-8	<i>Methylenediphenyl diisocyanate</i> ⚠ 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; Acute Tox. 5, H303	<1%

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

4 First aid measures

- **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.

- **Information for doctor:**

- **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.

- **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 A.

5 Firefighting measures

- **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

- **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.

- **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.

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

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **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.
- **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.
- **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.

7 Handling and storage

- **Handling:**
- **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.
- **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.
Once opened unfinished quantities must be stored in airtight packaging conditions.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see section 7.
- **Control parameters**

· Ingredients with limit values that require monitoring at the workplace:	
CAS: 9016-87-9 Diphenylmethanediisocyanate, isomers and homologues	
PEL (USA)	Ceiling limit: 0.2 mg/m ³ , 0.02 ppm
REL (USA)	Long-term value: 0.05 mg/m ³ , 0.005 ppm Ceiling limit: 0.2* mg/m ³ , 0.02* ppm *10-min

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TLV (USA)	Long-term value: 0.051 mg/m ³ , 0.005 ppm
WEL (Great Britain)	Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO
CAS: 101-68-8 Methylenediphenyl diisocyanate	
PEL (USA)	Ceiling limit: 0.2 mg/m ³ , 0.02 ppm
REL (USA)	Long-term value: 0.05 mg/m ³ , 0.005 ppm Ceiling limit: 0.2* mg/m ³ , 0.02* ppm *10-min
TLV (USA)	Long-term value: 0.051 mg/m ³ , 0.005 ppm
WEL (Great Britain)	Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ 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	0.1 mg/l (seawater)
PNEC - freshwater	1 mg/l (freshwater)
PNEC - sediment	1 mg/kg (ground)

· Ingredients with biological limit values:**CAS: 9016-87-9 Diphenylmethanediisocyanate, isomers and homologues**

BMGV (Great Britain)	1 µmol creatinine/mol Medium: urine Sampling time: At the end of the period od exposure Parameter: isocyanate-derived diamine
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CAS: 101-68-8 Methylenediphenyl diisocyanate

BMGV (Great Britain)	1 µmol creatinine/mol Medium: urine Sampling time: At the end of the period od exposure Parameter: isocyanate-derived diamine
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· Exposure controls**· 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.

Also observe the safety data sheet of component A.

Wash hands before breaks and at the end of work.

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· 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).***· Protection of hands:***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.**Only use water and mild soap or a pH-neutral skin cleanser to cleanse the skin. Do not use solvents.***· 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.**The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.**At least 480 minutes.***· Eye 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.*

9 Physical and chemical properties

· Information on basic physical and chemical properties**· General Information****· Appearance:****Form:** *Fluid***Colour:** *Brown***· Odour:** *Light***· Odour threshold:** *Not determined***· pH-value:** *Not determined***· Change in condition****Melting point/freezing point:** *Undetermined***Initial boiling point and boiling range:** *>200 °C***· Flash point:** *>100 °C***· Flammability** *Not applicable***· Auto-ignition temperature:** *>400 °C*

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· Decomposition temperature:	Not determined
· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits: Lower:	Not determined
Upper:	Not determined
· Vapour pressure:	Not determined
· Density at 20 °C:	1.1 g/cm ³
· Relative density	Not determined
· Vapour density	Not determined
· Evaporation rate	Not determined
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined
· Viscosity: Dynamic at 20 °C:	~160 mPas
Kinematic:	Not determined
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** Avoid heating to above 40°C and cooling to below 10°C.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity**

· 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	0.31 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	0.31 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Irritant to skin and mucous membranes.
- **Serious eye damage/irritation** Irritating effect.
- **Respiratory or skin sensitisation**
Sensitisation possible through inhalation.

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Sensitisation possible through skin contact.

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

May cause an allergic skin reaction.

· 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.

Carcinogenic.

Also observe the safety data sheet of component A.

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

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

Carcinogenicity: Suspected of causing cancer by inhalation (Carc. 2).

Mutagenicity: In vivo and in vitro tests showed no mutagenic effects. Based on the available data, the classification criteria are not met.

Teratogenicity: Did not show any teratogenic effects in animal testing. Based on available data, the classification criteria are not met.

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

Carc. 2

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

None of the ingredients is listed.

12 Ecological information

· 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)**· 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.

· Behaviour in environmental systems:**· 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.

· Mobility in soil No further relevant information available.**· Additional ecological information:****· General notes:** Do not allow product to reach ground water, water course or sewage system.

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· **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%.

· **Other adverse effects** *No further relevant information available.*

13 Disposal considerations

· **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.

14 Transport information

· **UN-Number**

· **ADR, ADN, IMDG, IATA**

Void

· **UN proper shipping name**

· **ADR, ADN, IMDG, IATA**

Void

· **Transport hazard class(es)**

· **ADR, ADN, IMDG, IATA**

· **Class**

Void

· **Packing group**

· **ADR, IMDG, IATA**

Void

· **Environmental hazards:**

· **Marine pollutant:**

No

· **Special precautions for user**

Not applicable

· **Transport in bulk according to Annex II of Marpol and the IBC Code**

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

15 Regulatory information

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

· **Directive 2012/18/EU**

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

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

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.

· **Relevant phrases**

H303 May be harmful if swallowed.

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.

· **Contact:**

Product Safety Department

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

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 (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 5: Acute toxicity – Category 5

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

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

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